SLV-D100
RMT-V501

SERVICE MANUAL

US Model
Canadian Model

TS-10 MECHANISM

Refer to the SERVICE MANUAL of VHS MECHANICAL ADJUSTMENT MANUAL VII for MECHANICAL ADJUSTMENTS. (9-921-790-11)

SPECIFICATIONS

System

Laser
Semiconductor laser
Format
VHS NTSC standard
Video recording system
Rotary head helical scanning FM system
Video heads
Double azimuth four heads
Video signal
NTSC color, EIA standards
Tape speed
SP: 33.35 mm/s (1 3/8 inches/s)
EP: 11.12 mm/s (7/16 inches/s)
LP: 16.67 mm/s (11/16 inches/s), playback only
Maximum recording/playback time
8 hrs. in EP mode (with T-160 tape)
Rewind time
Approx. 1 min (with T-120 tape)

Tuner section

Channel coverage
VHF 2 to 13
UHF 14 to 69
CATV A-8 to A-1, A to W, W+1 to W+84
Antenna
75-ohm antenna terminal for VHF/UHF

Audio characteristics

Frequency response
DVD VIDEO (PCM 96 kHz): 2 Hz to 44 kHz (±1.0 dB)/DVD VIDEO (PCM 48 kHz): 2 Hz to 22 kHz (±0.5 dB)/CD: 2 Hz to 20 kHz (±0.5 dB)
Signal-to-noise ratio (S/N ratio)
115 dB (LINE OUT (L/R) AUDIO jacks only)
Harmonic distortion
0.003 %
Dynamic range
DVD VIDEO: 103 dB/CD: 99 dB
Wow and flutter
Less than detected value (±0.001% W PEAK)

The signals from LINE OUT L/R (AUDIO) jacks are measured. When you play PCM sound tracks with a 96 kHz sampling frequency, the output signals from the DIGITAL OUT (OPTICAL or COAXIAL) jack are converted to 48 kHz sampling frequency.

Inputs and outputs

LINE IN 1 and LINE-2 IN
VIDEO IN, phono jack (1 each)
Input signal: 1 Vp-p, 75 ohms, unbalanced, sync negative
AUDIO IN, phono jacks (2 each)
Input level: 327 mVrms
Input impedance: more than 47 kilohms
LINE OUT
VIDEO OUT, phono jack (1)
Output signal: 1 Vp-p, 75 ohms, unbalanced, sync negative
AUDIO OUT, phono jacks (2)
Standard output: 327 mVrms
Load impedance: 47 kilohms
Output impedance: less than 10 kilohms
DIGITAL OUT
OPTICAL, Optical output jack
–18 dBm (wave length: 660 nm)
COAXIAL, phono jack
Output signal: 0.5 Vp-p, 75 ohms
COMPONENT VIDEO OUT (Y, Pb, Pr)
Phono jack
Y: 1.0 Vp-p/Pb, Pr: 0.7 Vp-p, 75 ohms

Timer section

Clock
Quartz locked
Timer indication
12-hour cycle
Timer setting
8 programs (max.)

General

Power requirements
120 V AC, 60 Hz
Power consumption
29 W
Operating temperature
0°C to 45°C (32°F to 113°F)
Storage temperature
–20°C to 60°C (–4°F to 140°F)
Operating humidity
25% to 80%
Dimensions including projecting parts and controls (w/h/d)
Approx. 430 × 100 × 330 mm (Approx. 17 × 4 × 13 inches)
Mass
Approx. 4.5 kg (Approx. 9.9 lbs)

Supplied accessories

Remote commander (1)
Size AA (R6) batteries (2)
75-ohm coaxial cable with F-type connectors (1)
Audio/video cord (pinplug × 3 ⟷ pinplug × 3) (1)

Design and specifications are subject to change without notice.

DVD PLAYER/ VIDEO CASSETTE RECORDER

VHS Hi-Fi COMPACT disc DIGITAL VIDEO DVD VIDEO

SONY®

3 Pick-up Disassembly and Reassembly

3-1 Disassembly

1) Remove the power cord.
2) Disassemble the Deck-Assy.
3) Make solder land 2 points short on Pick-up.
   (See Fig. 1-3)
4) Disassembly the Pick-up.

3-2 Assembly

1) Replace the Pick-up.
2) Remove the soldering 2 points on Pick-up.
3) Reassemble the Deck-Assy.

Note: If the assembly and disassembly are not done in correct sequence, the Pick-up may be damaged.

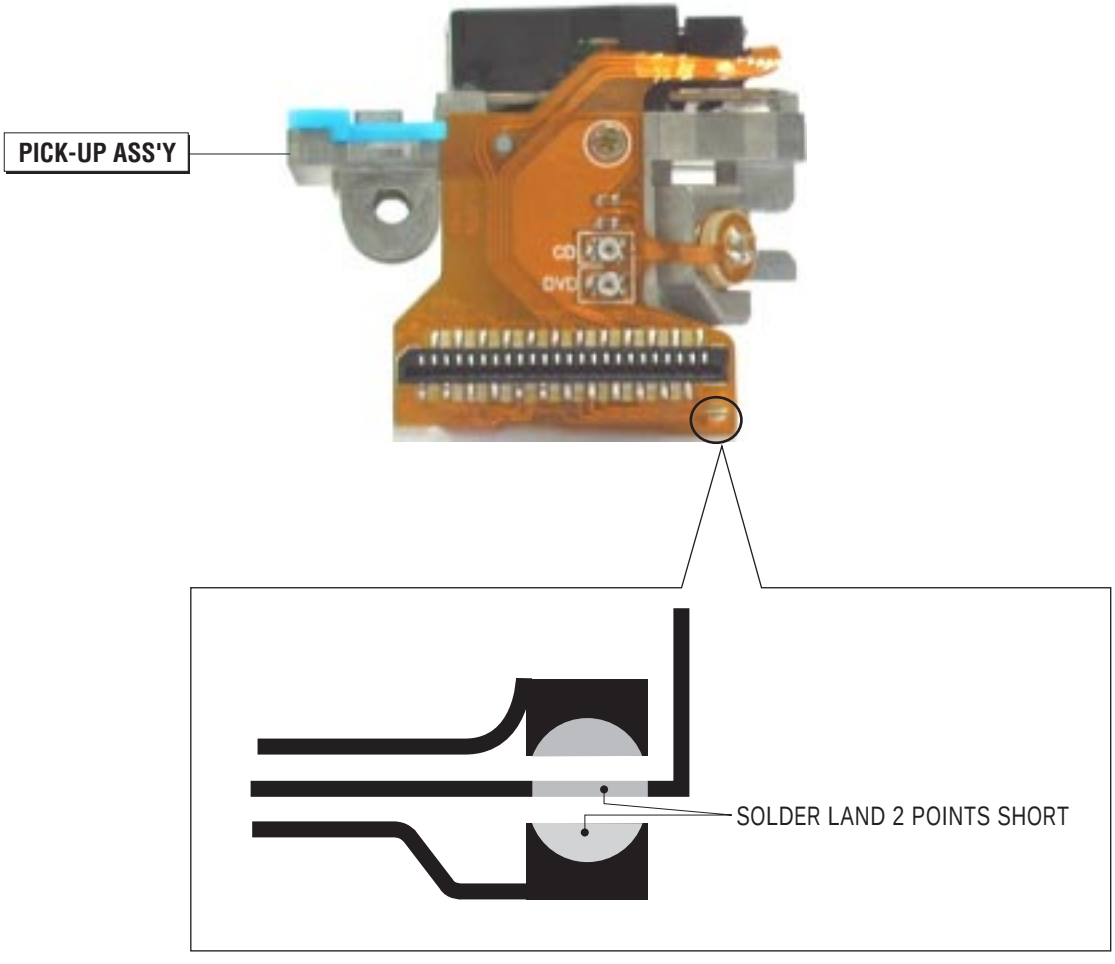
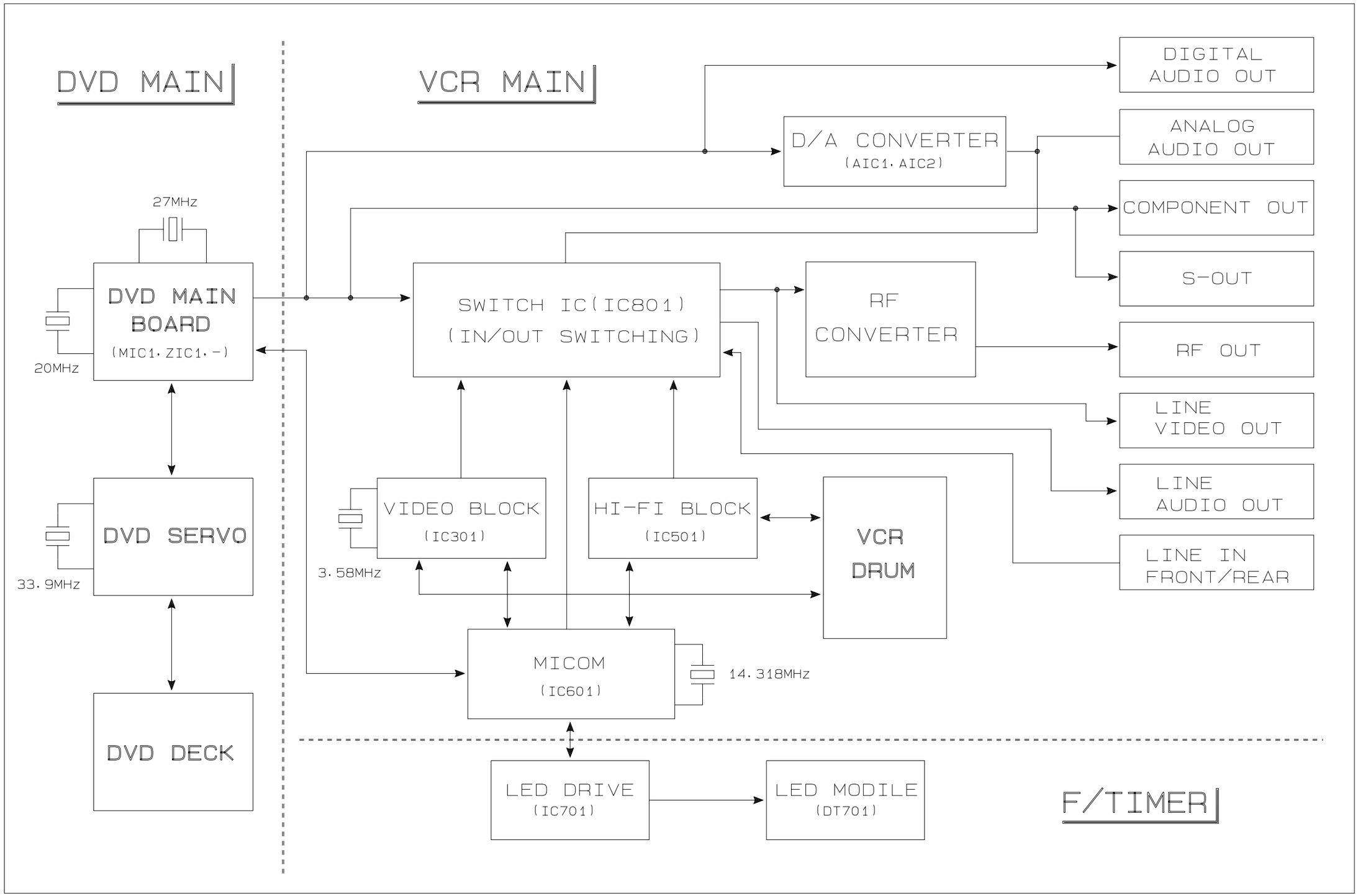
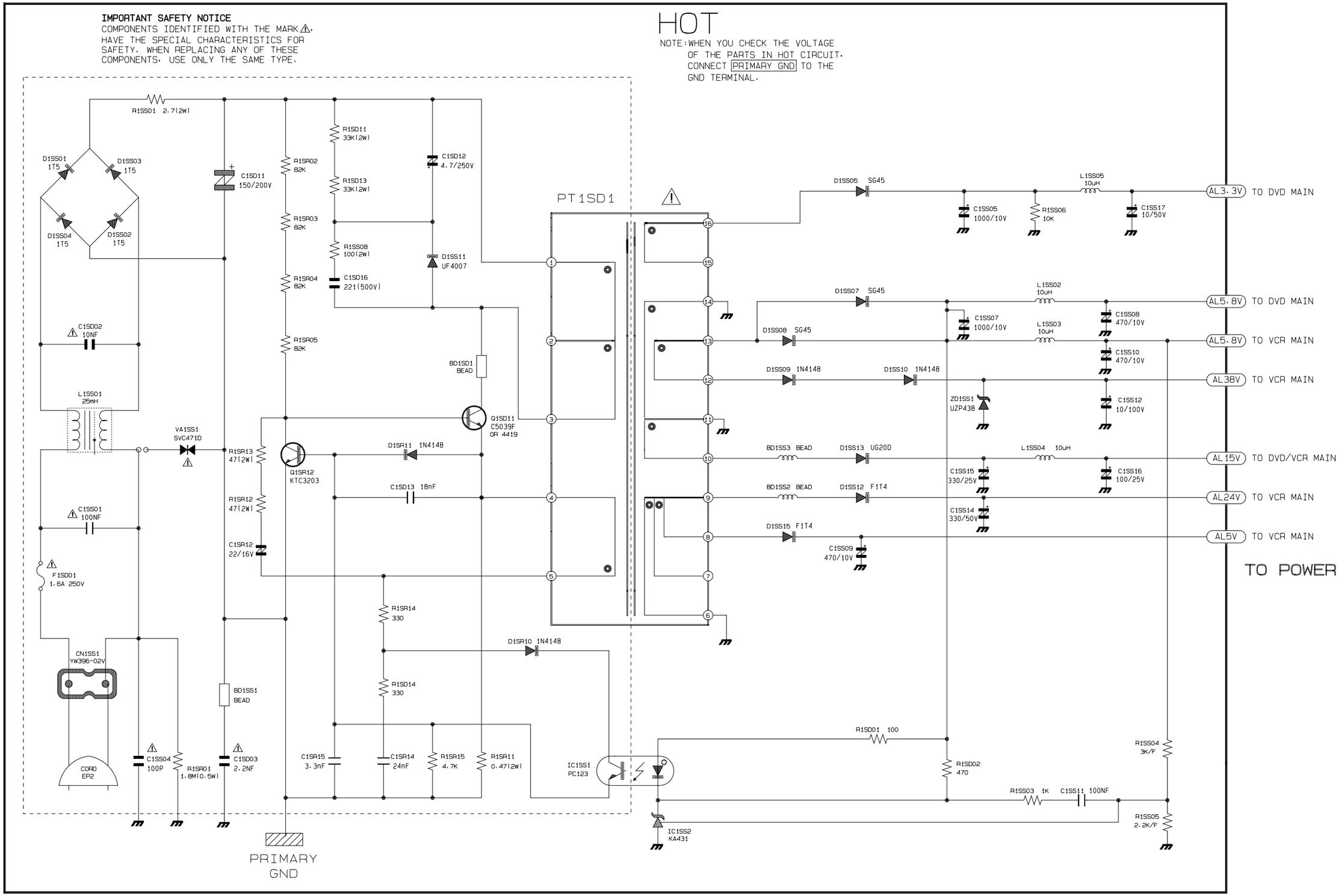


Fig.3

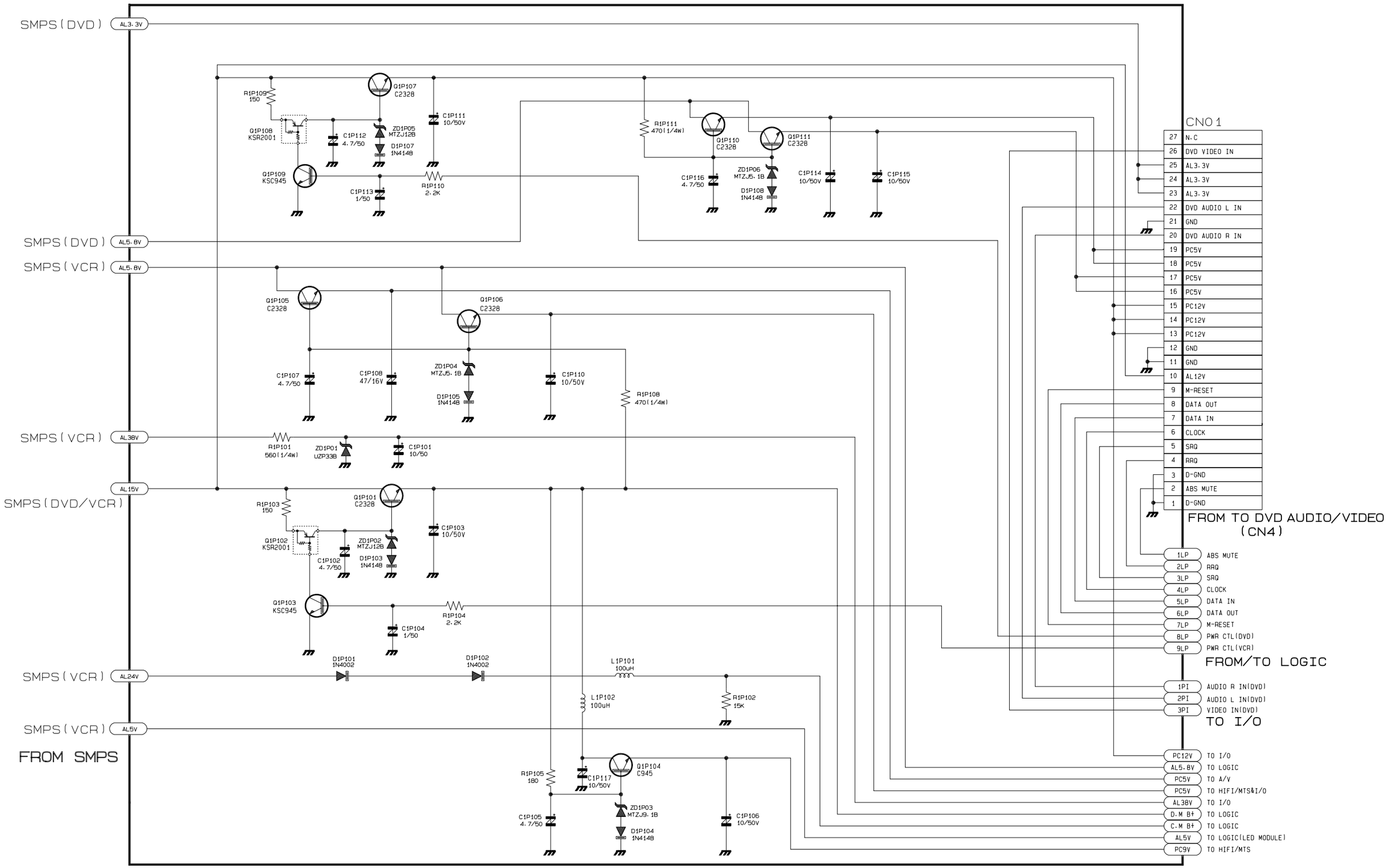
3. Block Diagram



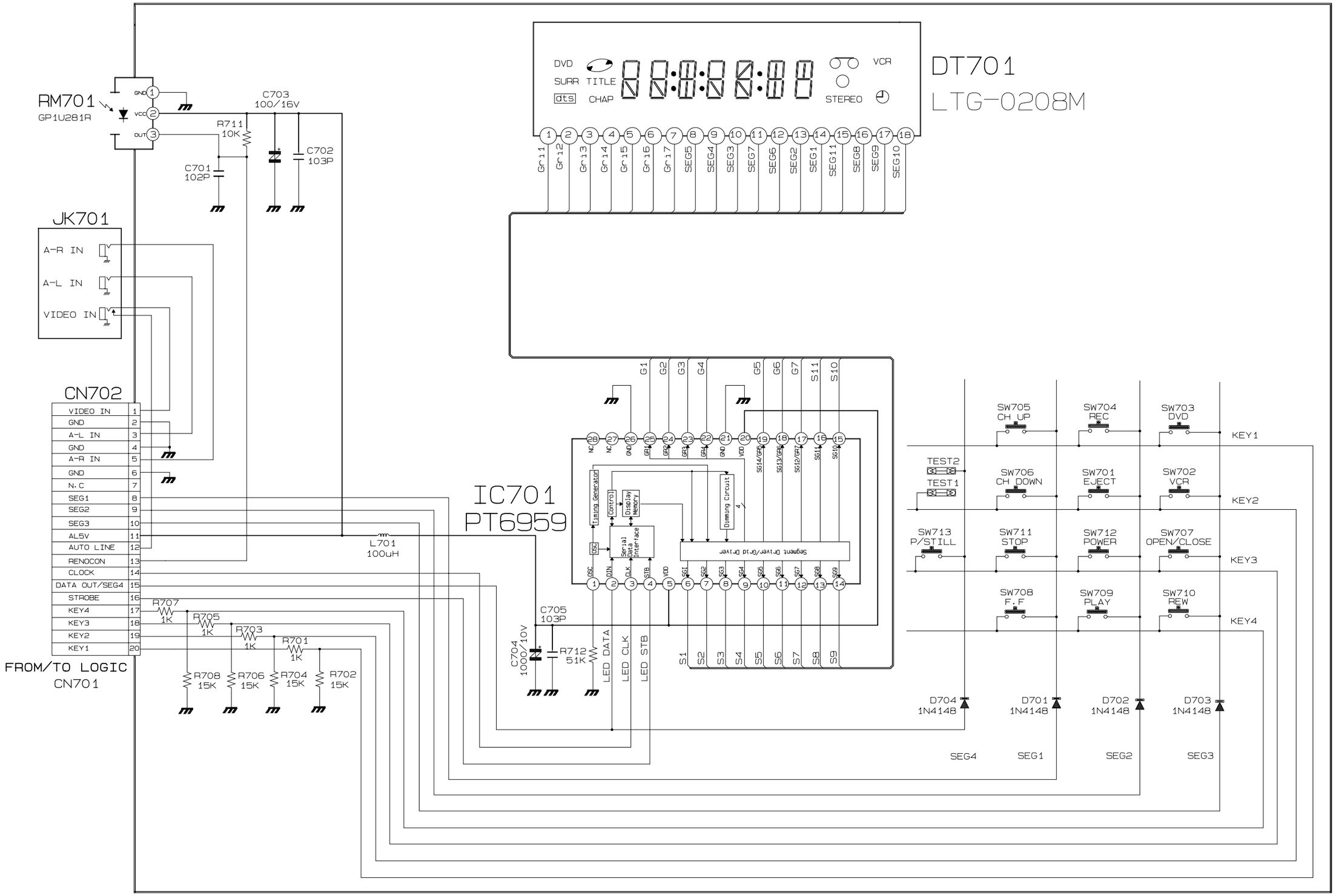
5-1 S.M.P.S.

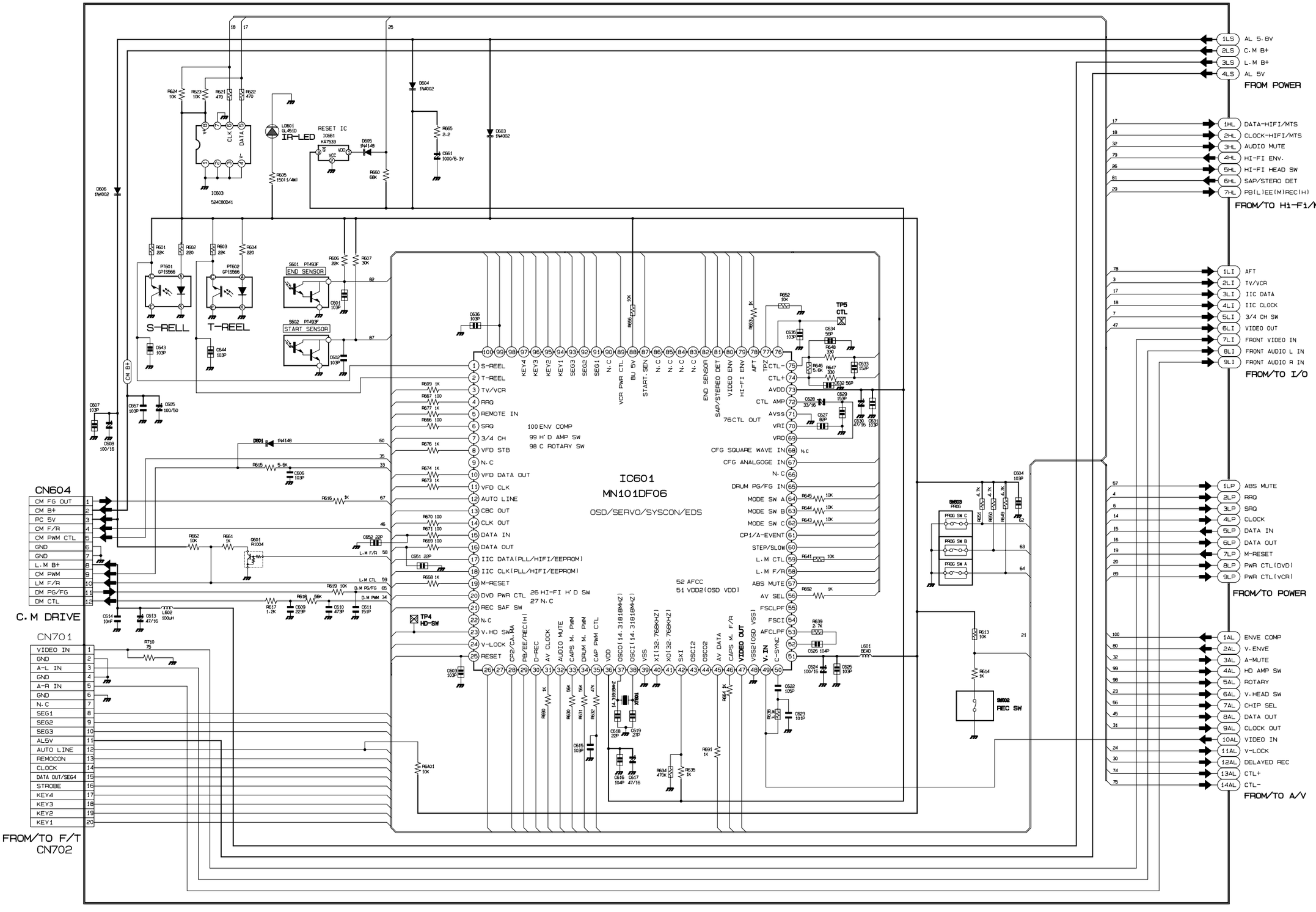

IMPORTANT SAFETY NOTICE
COMPONENTS IDENTIFIED WITH THE MARK ⚠, HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.
HOT
NOTE : WHEN YOU CHECK THE VOLTAGE OF THE PARTS IN HOT CIRCUIT. CONNECT PRIMARY GND TO THE GND TERMINAL.
PT1SD1
R1SS01 2.7(2W)
D1SS01 1T5
D1SS03 1T5
D1SS04 1T5
D1SS02 1T5
C1SD11 150/200V
R1SR02 82K
R1SR03 82K
R1SR04 82K
R1SR05 82K
R1SD11 33K(2W)
R1SD13 33K(2W)
R1SS08 100(2W)
C1SD16 221(500V)
C1SD12 4.7/250V
D1SS11 UF4007
C1SD02 10NF
L1SS01 25mH
VA1SS1 SVC471D
R1SR13 47(2W)
R1SR12 47(2W)
C1SR12 22/16V
Q1SR12 KTC3203
D1SR11 1N4148
C1SD13 18nF
Q1SD11 C5039F OR 4419
BD1SD1 BEAD
C1SS01 100NF
F1SD01 1.6A 250V
CN1SS1 YW396-02V
CORD EP2
C1SS04 100P
R1SR01 1.8M(0.5W)
BD1SS1 BEAD
C1SD03 2.2NF
R1SR14 330
R1SD14 330
D1SR10 1N4148
C1SR15 3.3nF
C1SR14 24nF
R1SR15 4.7K
R1SR11 0.47(2W)
IC1SS1 PC123
IC1SS2 KA431
PRIMARY GND
D1SS05 SG45
C1SS05 1000/10V
R1SS06 10K
L1SS05 10uH
C1SS17 10/50V
AL3.3V TO DVD MAIN
D1SS07 SG45
C1SS07 1000/10V
L1SS02 10uH
C1SS08 470/10V
AL5.8V TO DVD MAIN
D1SS08 SG45
L1SS03 10uH
C1SS10 470/10V
AL5.8V TO VCR MAIN
D1SS09 1N4148
D1SS10 1N4148
ZD1SS1 UZP43B
C1SS12 10/100V
AL38V TO VCR MAIN
BD1SS3 BEAD
D1SS13 UG20D
L1SS04 10uH
C1SS15 330/25V
C1SS16 100/25V
AL15V TO DVD/VCR MAIN
BD1SS2 BEAD
D1SS12 F1T4
C1SS14 330/50V
AL24V TO VCR MAIN
D1SS15 F1T4
C1SS09 470/10V
AL5V TO VCR MAIN
TO POWER
R1SD01 100
R1SD02 470
R1SS03 1K
C1SS11 100NF
R1SS04 3K/F
R1SS05 2.2K/F

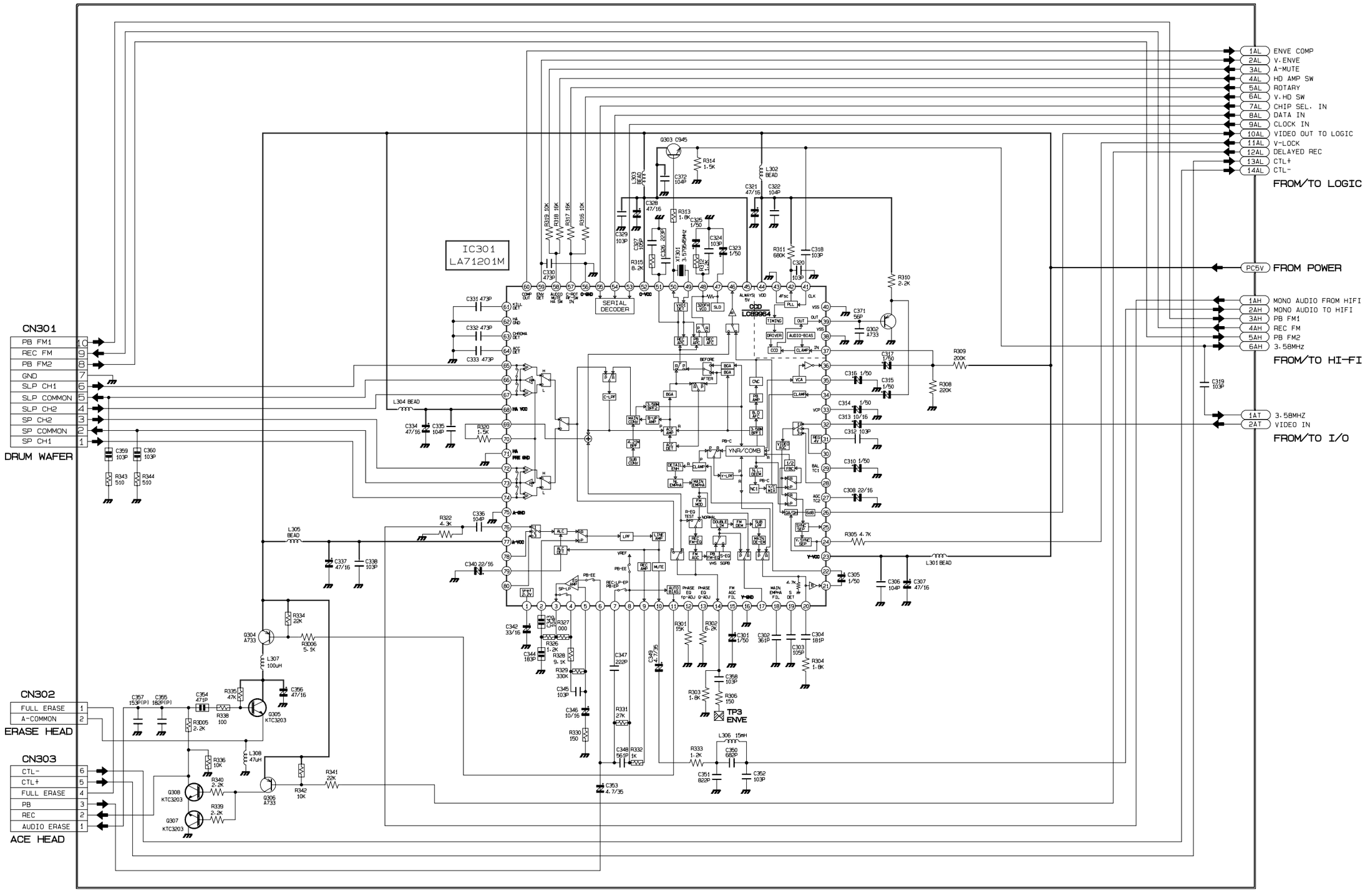
5-2 Power Drive

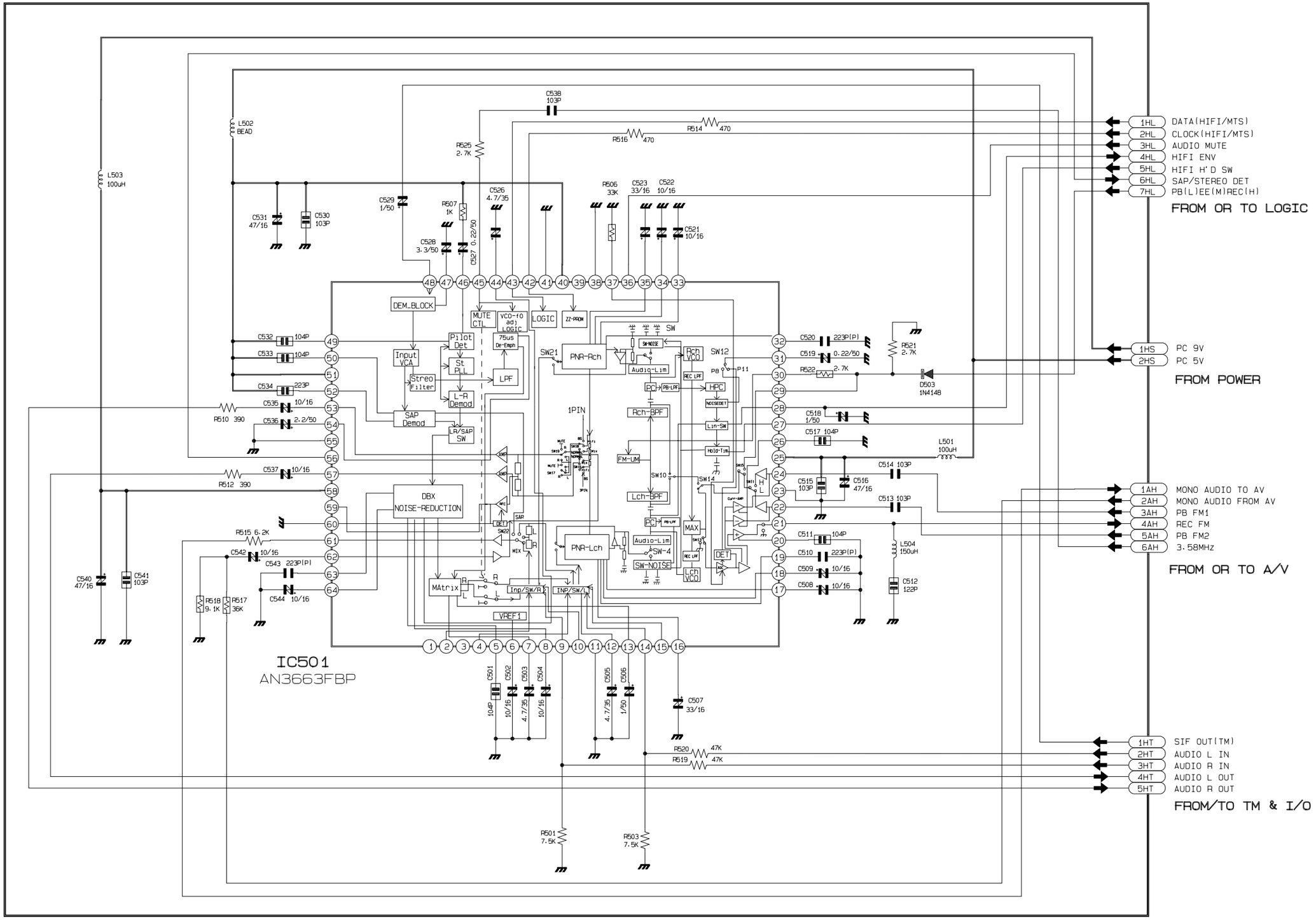


5-3 Function-Timer

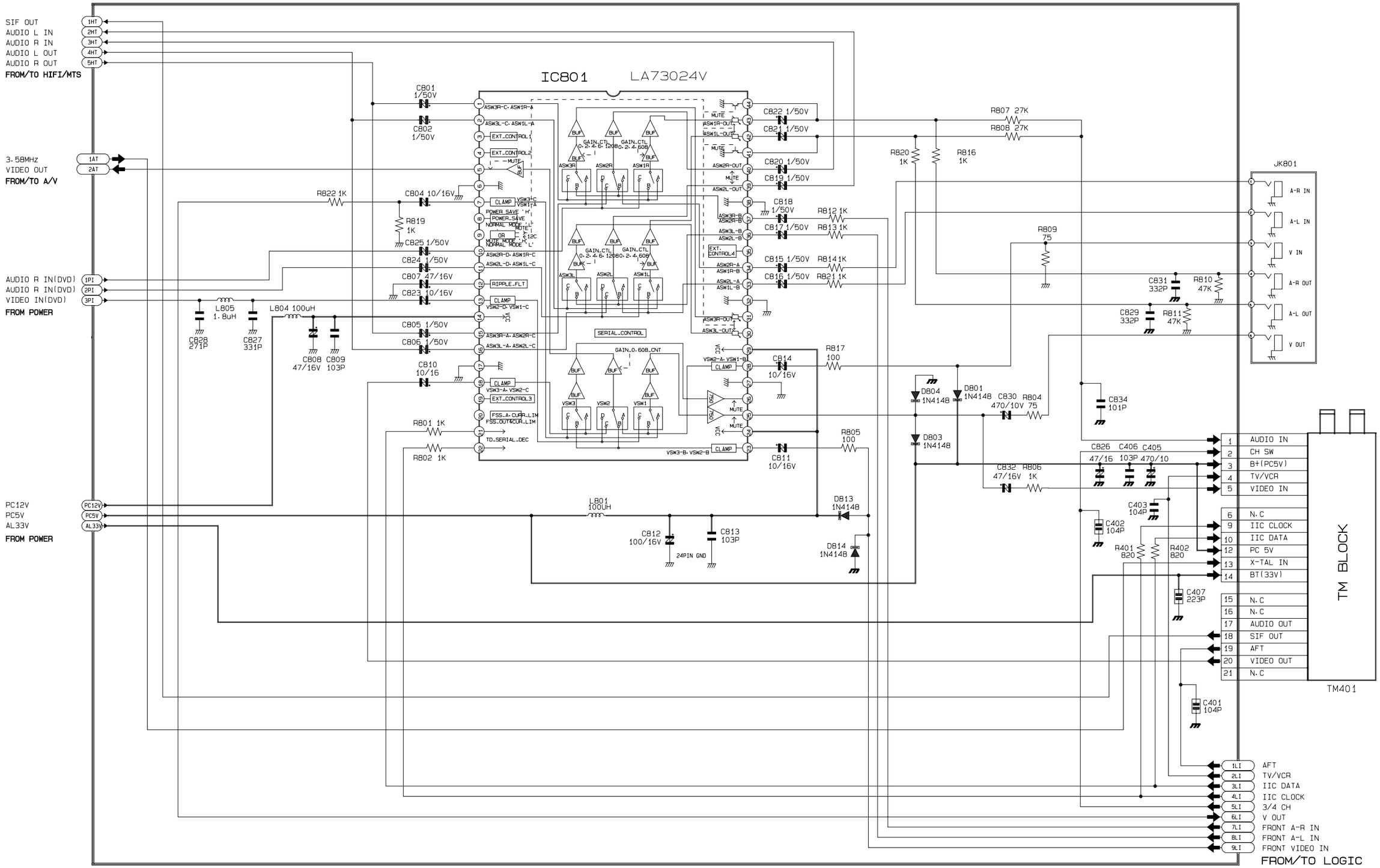


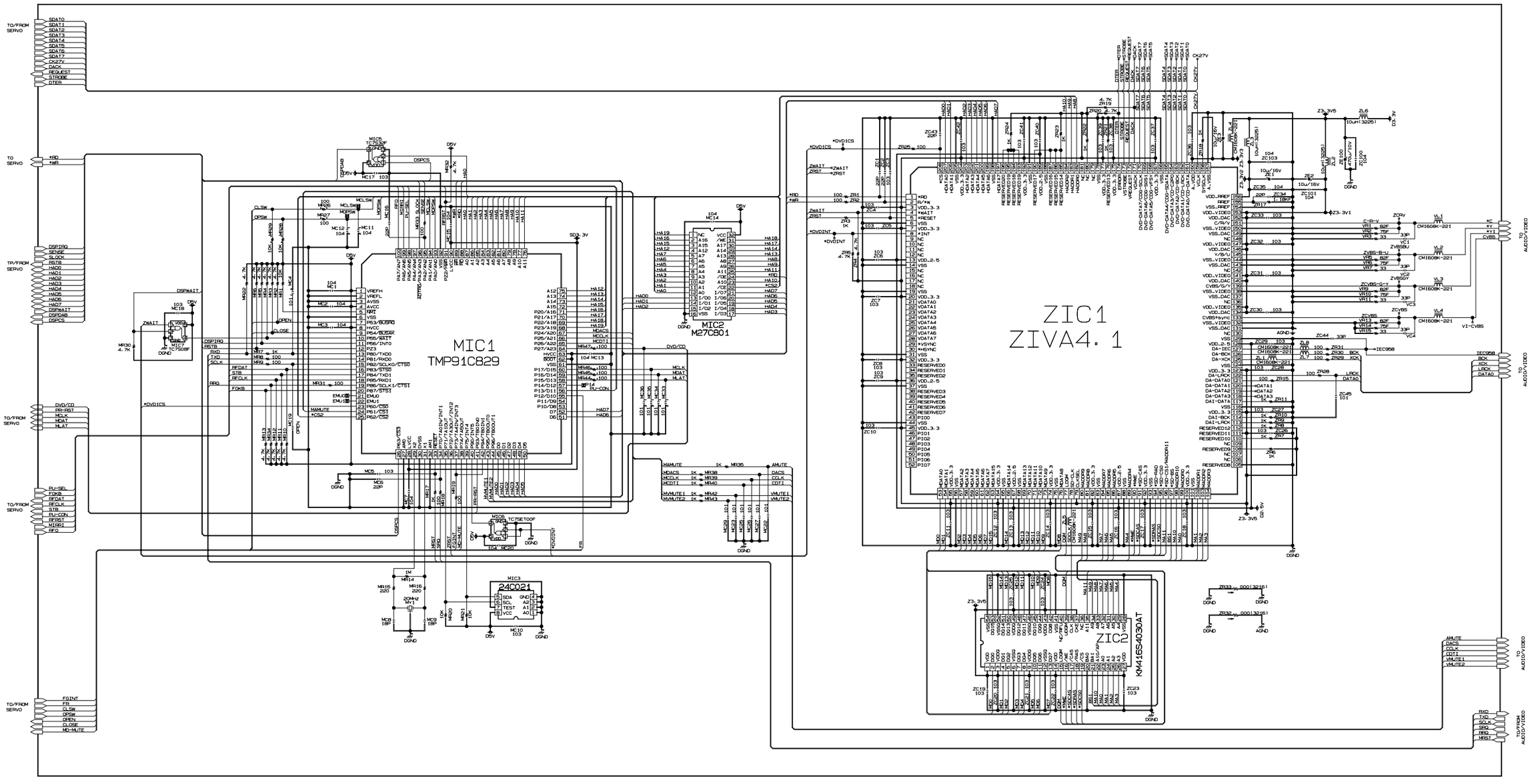

IC601
MN101DF06
OSD/SERVO/SYSCON/EDS
IR-LED
RESET IC
S-REEL
T-REEL
END SENSOR
START SENSOR
TP5 CTL
TP4 HD-SW
CN604
C.M DRIVE
CN701
FROM/TO F/T CN702
FROM POWER
FROM/TO Hi-Fi/MTS
FROM/TO I/O
FROM/TO POWER
FROM/TO A/V
SW603 PROG
SW602 REC SW
100 ENV COMP
99 H'D AMP SW
98 C ROTARY SW
76 CTL OUT
52 AFCC
51 VDD2(OSD VDD)
26 HI-FI H'D SW
27 N.C


IC301
LA71201M
SERIAL DECODER
CCD
LC89964
YNR/COMB
CN301
PB FM1
REC FM
PB FM2
GND
SLP CH1
SLP COMMON
SLP CH2
SP CH2
SP COMMON
SP CH1
DRUM WAFER
CN302
FULL ERASE
A-COMMON
ERASE HEAD
CN303
CTL-
CTL+
FULL ERASE
PB
REC
AUDIO ERASE
ACE HEAD
1AL ENVE COMP
2AL V.ENVE
3AL A-MUTE
4AL HD AMP SW
5AL ROTARY
6AL V.HD SW
7AL CHIP SEL. IN
8AL DATA IN
9AL CLOCK IN
10AL VIDEO OUT TO LOGIC
11AL V-LOCK
12AL DELAYED REC
13AL CTL+
14AL CTL-
FROM/TO LOGIC
PC5V FROM POWER
1AH MONO AUDIO FROM HIFI
2AH MONO AUDIO TO HIFI
3AH PB FM1
4AH REC FM
5AH PB FM2
6AH 3.58MHZ
FROM/TO HI-FI
1AT 3.58MHZ
2AT VIDEO IN
FROM/TO I/O
TP3
ENVE

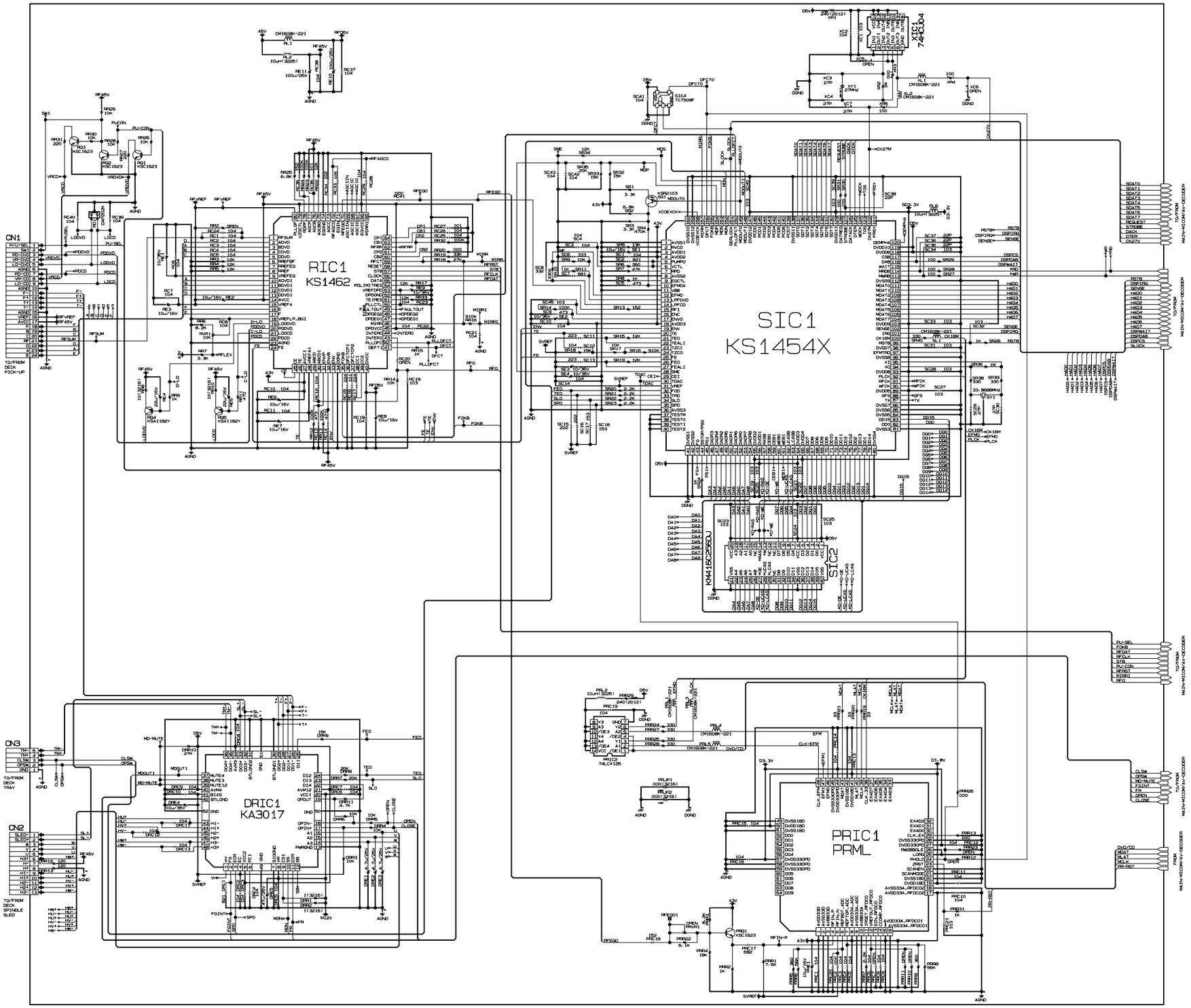

1HL DATA(HIFI/MTS)
2HL CLOCK(HIFI/MTS)
3HL AUDIO MUTE
4HL HIFI ENV
5HL HIFI H'D SW
6HL SAP/STEREO DET
7HL PB(L)EE(M)REC(H)
FROM OR TO LOGIC
1HS PC 9V
2HS PC 5V
FROM POWER
1AH MONO AUDIO TO AV
2AH MONO AUDIO FROM AV
3AH PB FM1
4AH REC FM
5AH PB FM2
6AH 3.58MHz
FROM OR TO A/V
1HT SIF OUT(TM)
2HT AUDIO L IN
3HT AUDIO R IN
4HT AUDIO L OUT
5HT AUDIO R OUT
FROM/TO TM & I/O
IC501
AN3663FBP
DEM_BLOCK
MUTE CTL
VCO-fo adj LOGIC
LOGIC
ZZ-PROM
Pilot Det
75us De-Emph
Input VCA
Stereo Filter
St PLL
LPF
L-R Demod
SAP Demod
LR/SAP SW
DBX NOISE-REDUCTION
MAtrix
Inp/SW/R
INP/SW/L
VREF1
PNR-Rch
PNR-Lch
SW21
SW12
SW10
SW14
SW22
SW-4
SW-NOISE
SW
SW-NOISE
Rch VCO
Lch VCO
Audio-Lim
REC LPF
PB-LPF
HPC
NOISEDET
Lin-SW
Holo-Lim
Rch-BPF
Lch-BPF
FM-UM
MAX
DET
SAP
MIX
1PIN
L502 BEAD
L503 100uH
L501 100uH
L504 150uH
C538 103P
R525 2.7K
R514 470
R516 470
C529 1/50
C531 47/16
C530 103P
R507 1K
C528 3.3/50
C527 0.22/50
C526 4.7/35
R506 33K
C523 33/16
C522 10/16
C521 10/16
C532 104P
C533 104P
C534 223P
C535 10/16
C536 2.2/50
R510 390
C537 10/16
R512 390
R515 6.2K
C542 10/16
C543 223P(P)
C544 10/16
C540 47/16
C541 103P
R518 9.1K
R517 36K
C520 223P(P)
C519 0.22/50
R522 2.7K
R521 2.7K
D503 1N4148
C518 1/50
C517 104P
C514 103P
C515 103P
C516 47/16
C513 103P
C511 104P
C510 223P(P)
C509 10/16
C508 10/16
C512 122P
C501 104P
C502 10/16
C503 4.7/35
C504 10/16
C505 4.7/35
C506 1/50
C507 33/16
R520 47K
R519 47K
R501 7.5K
R503 7.5K

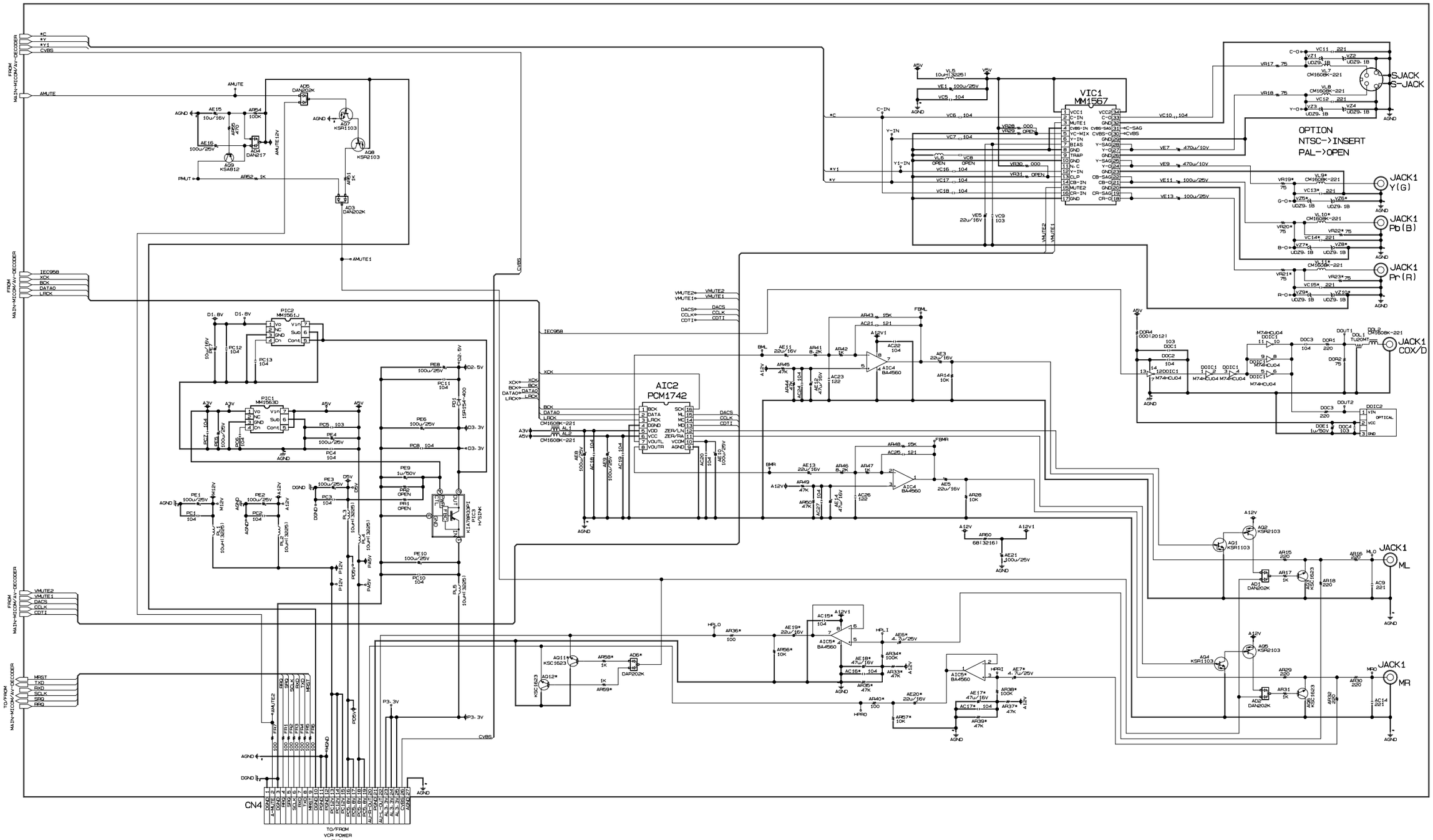
5-7 Input-Output




MIC1
TMP91C829
MIC2
M27C801
ZIC1
ZIVA4.1
ZIC2
KM416S4030AT
MIC3
24C021
MIC5
TC7SET00F
MIC6
TC7SET00F
MIC7
TC7S08F
MIC8
TC7SET00F
TO/FROM SERVO
TO/FROM AUDIO/VIDEO
DSPCS
DSPWAIT
DSPIRQ
SDA3.3V
DVD/CD
PR-RST
MCLK
MDAT
MLAT
FGINT
FR
CL-SW
OPSW
OPEN
CLOSE
MD-MUTE
AMUTE
DACS
CCLK
CDT1
VMUTE1
VMUTE2
RXD
TXD
SCLK
SRQ
RFQ
MRST

5-9 DVD Servo


RIC1
KS1462
SIC1
KS1454X
SIC2
KM416S2560J
DRIC1
KA3017
PRIC1
PRML
XTC1
74HC04
CN1
CN2
CN3
TO/FROM DECK PICK-UP
TO/FROM DECK SPINDLE SLED
TO/FROM TRAY
TO/FROM MAIN-MICOM A/V-DECODER


VIC1
MM1567
AIC2
PCM1742
OPTION
NTSC->INSERT
PAL->OPEN
JACK1
S-JACK
JACK1
Y(G)
JACK1
Pb(B)
JACK1
Pr(R)
JACK1
COX/D
JACK1
ML
JACK1
MR
CN4
TO/FROM
VCR POWER
CN01

6. VCR Alignment and Adjustments

6-1 Reference

1) X-Point (Tracking center) adjustment, “Head switching adjustment” can be adjusted with remote control.

2) When replacing the VCR Main PCB Micom (IC601) and NVRAM (IC605 ; EEPROM) be sure to adjust the “Head switching adjustment”.

3) When replacing the cylinder ass'y, be sure to adjust the “X-Point” and “Head switching adjustment”.

4) How to adjustment.

- Monmently short-circuit the test point on Function-Timer PCB with pincers to set the adjustment mode.
- If the corresponding adjustment button is pressed, the adjustment is performed automatically.

6-1-1 Location of Adjustment Button of Remote Control

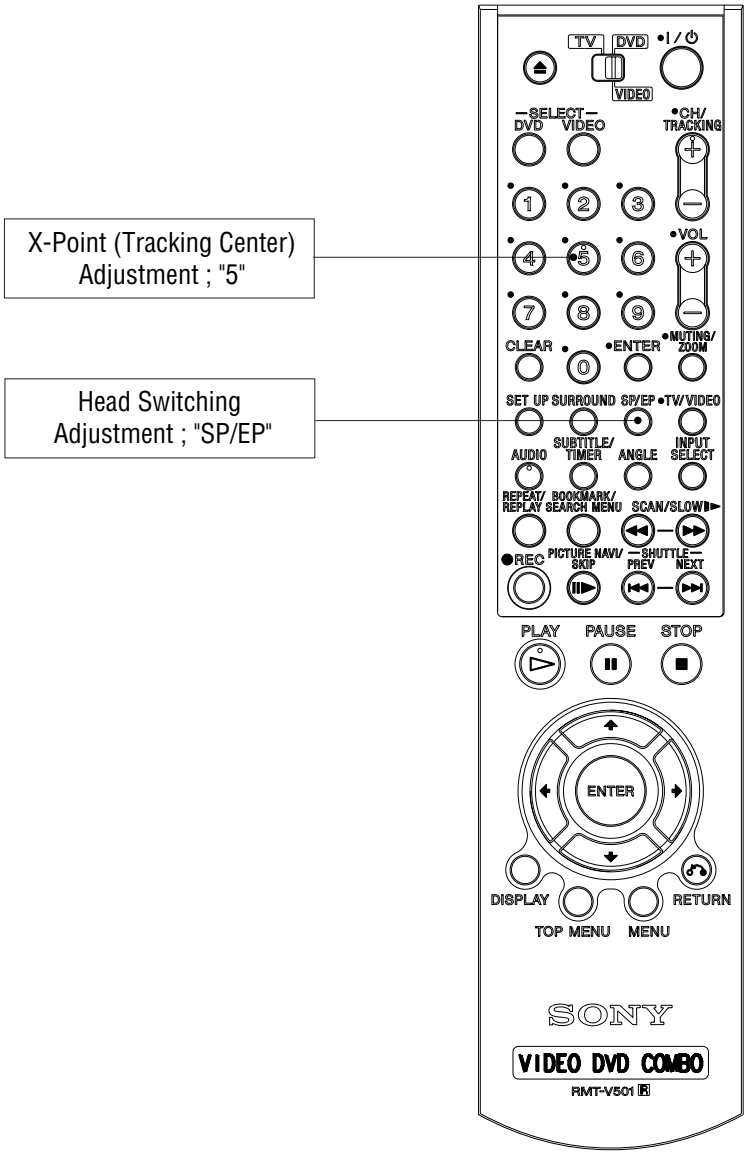


Fig. 6-1

6-1-2 TEST Location for Adjustment Mode Setting

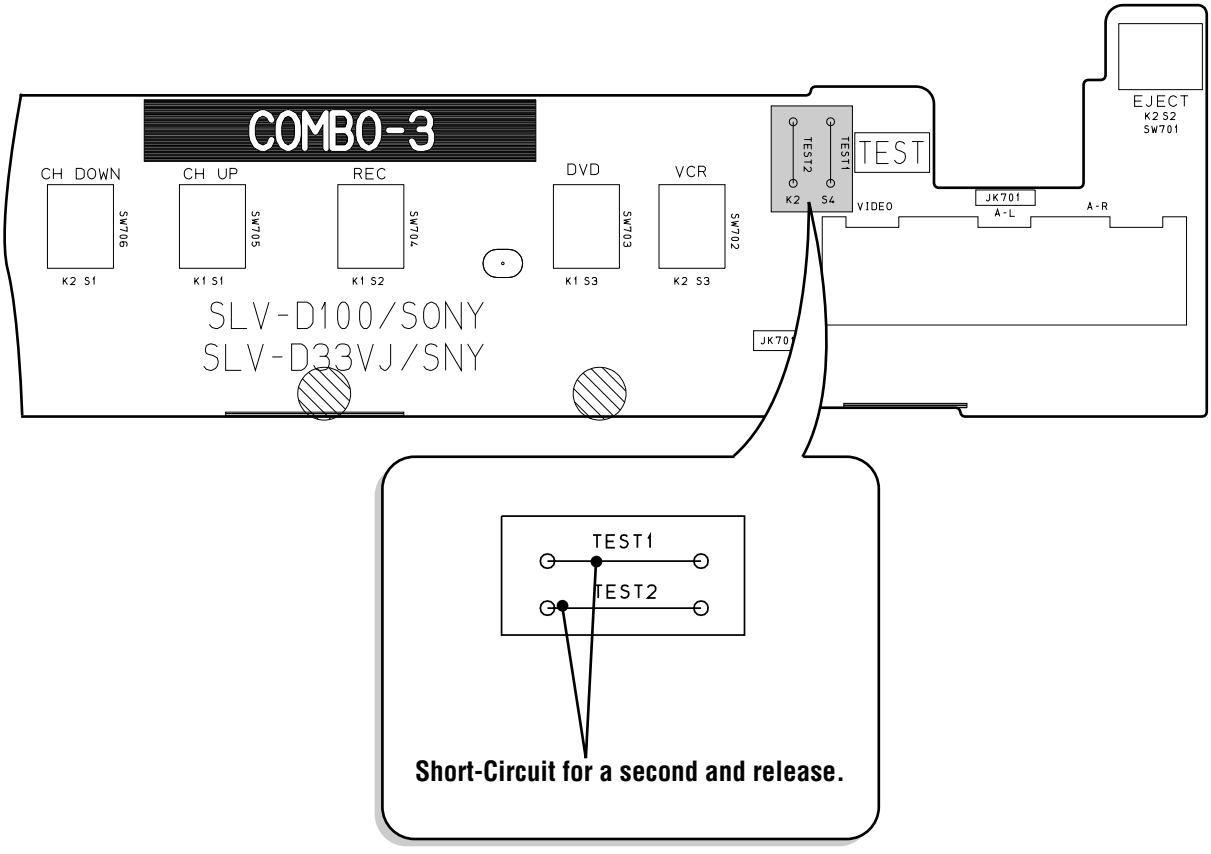


Fig. 6-2 Function-Timer PCB (Top View)

6-2 Mechanical Adjustment

Note : Refer to the Mechanical Manual “TS-10 (P/N: 9-921-790-11) for the adjustment and confirmation of ass’y full deck.

6-2-1 The Number and Position of Test Point

Test point :	TP2 (Audio Output)
	TP3 (Envelope)
	TP4 (H'D S/W-Trigger)
	TP5 (Control Pulse)

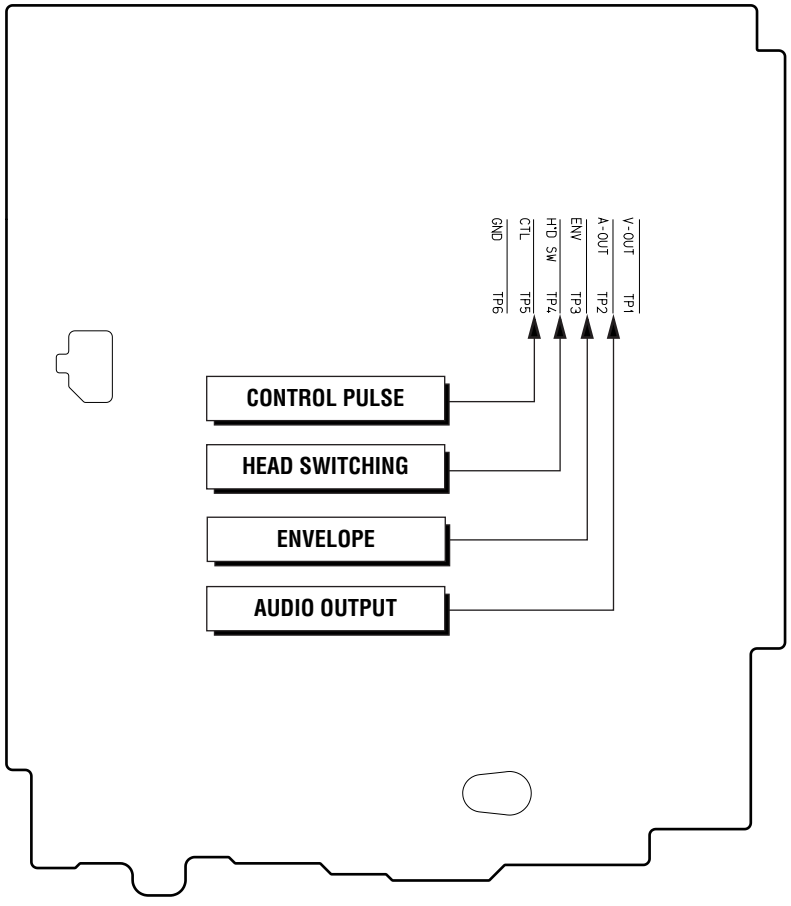


Fig. 6-3 Location of Test point (VCR Main PCB-Top View)

6-2-2 ACE Head Position (X-Point) Adjustment

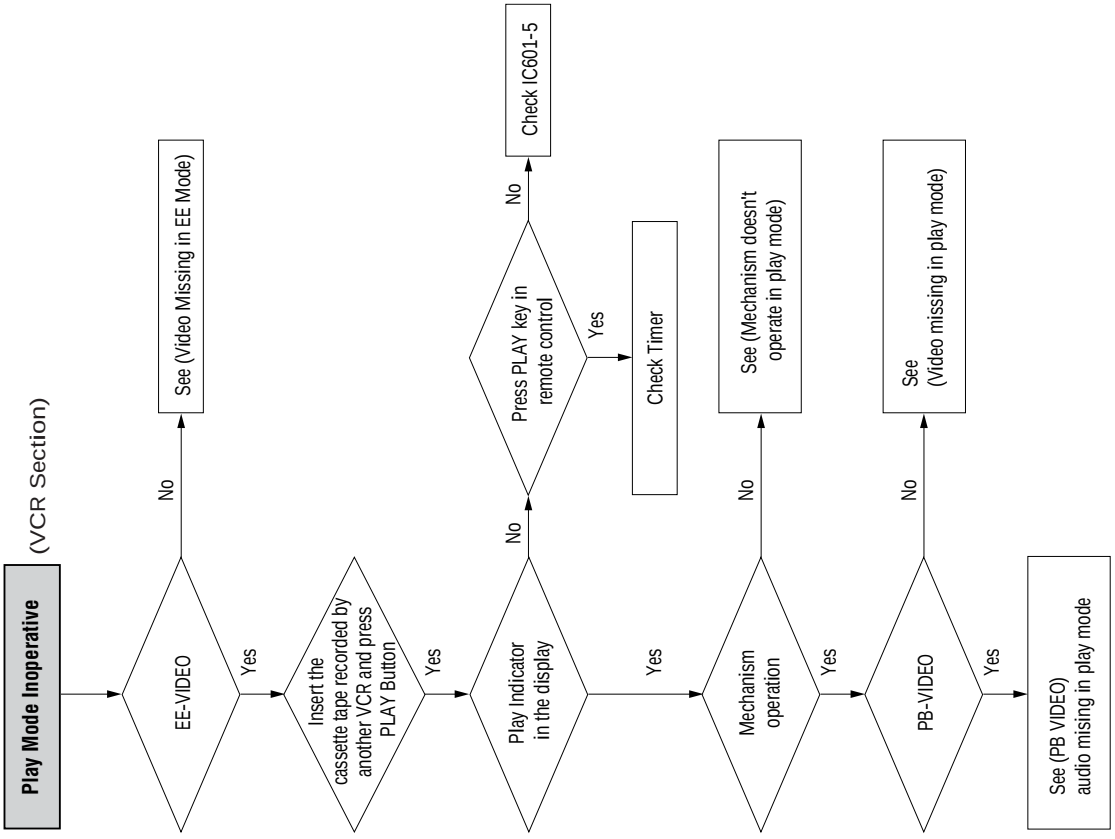
(See the 2-2-1(d) ACE Head Position (X-Point) Adjustment on 2-2 of the Mechanical Manual)

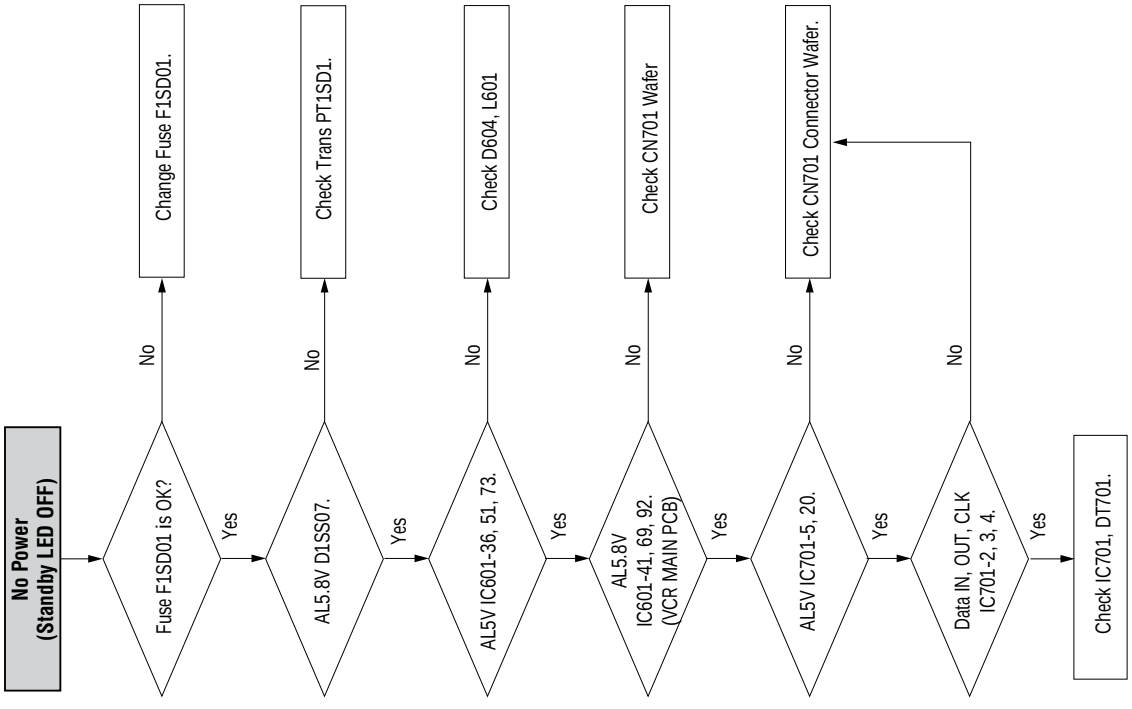
1) Playback the alignment tape (Color bar).
2) Momently short-cricuit the test point on F/Timer PCB with pincers to set the adjustment mode. (See Fig. 6-2)
3) Press the “5” button of remote control then adjustment is operated automatically. (See Fig. 6-1)
4) Connect the CH-1 probe to TP3 (Envelope) the CH-2 probe to TP4 (H’D switching pulse) and then trigger to CH-1.
5) Insert the (-) driver into the X-Point adjustment hole and adjust it so that envelope waveform is maximum.
6) Turn the Power off.

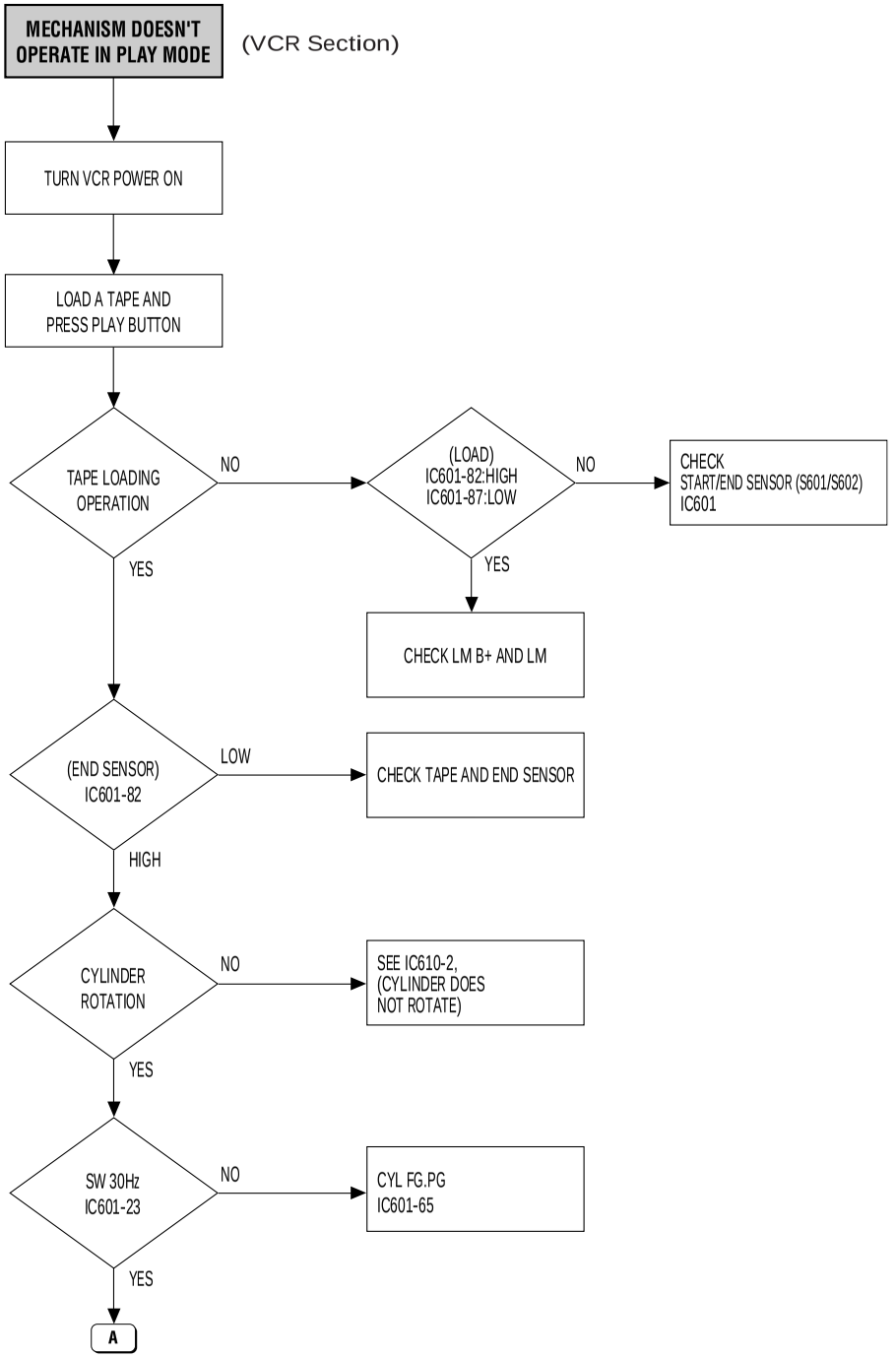
6-3 Head Switching Point Adjustment

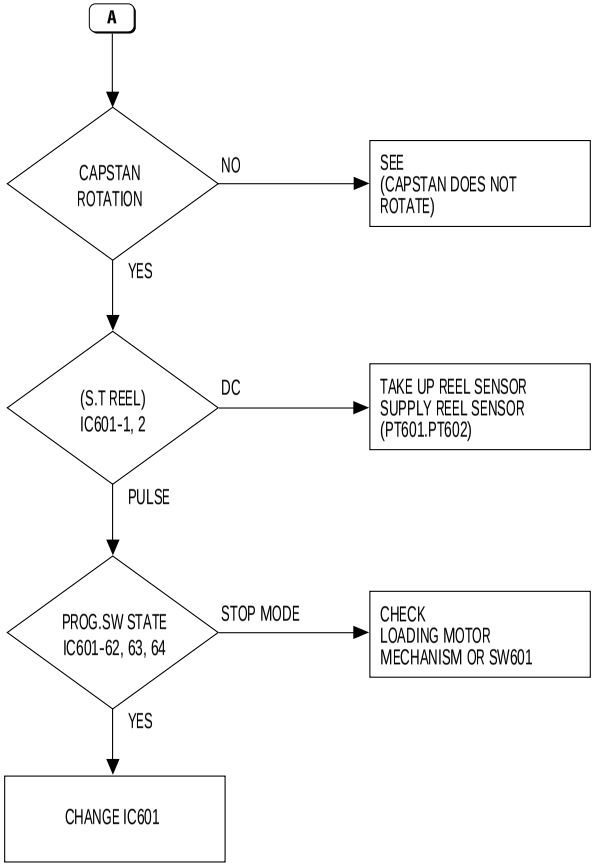
1) Playback the alignment tape.
2) Momently short-circuit the test point on Function-Timer PCB with pincers to set the adjustment mode. (See Fig. 6-2)
3) Press the “SP/EP” button of remote control then adjustment is operated automatically. (See Fig. 6-1)

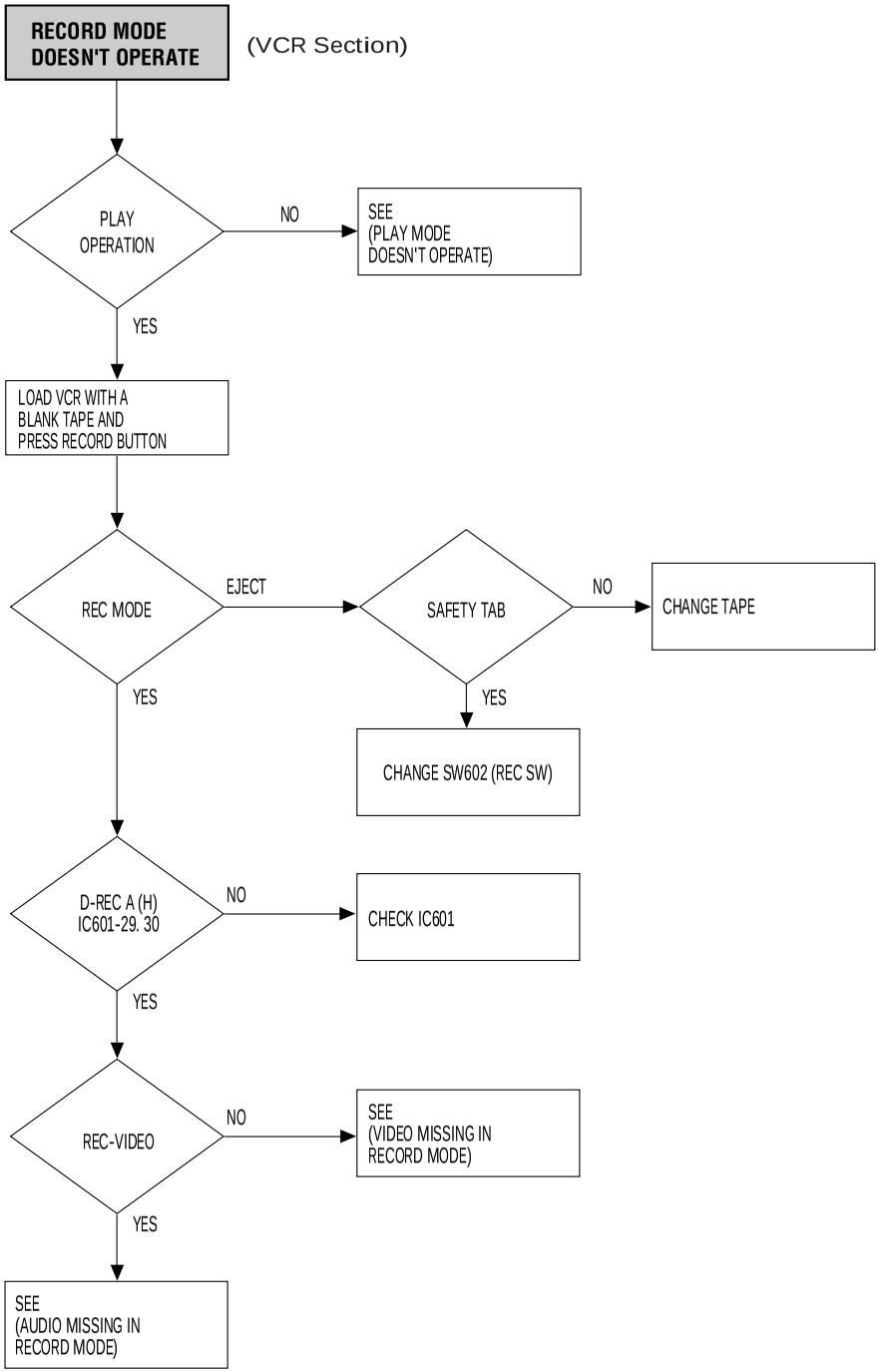
7. Troubleshooting

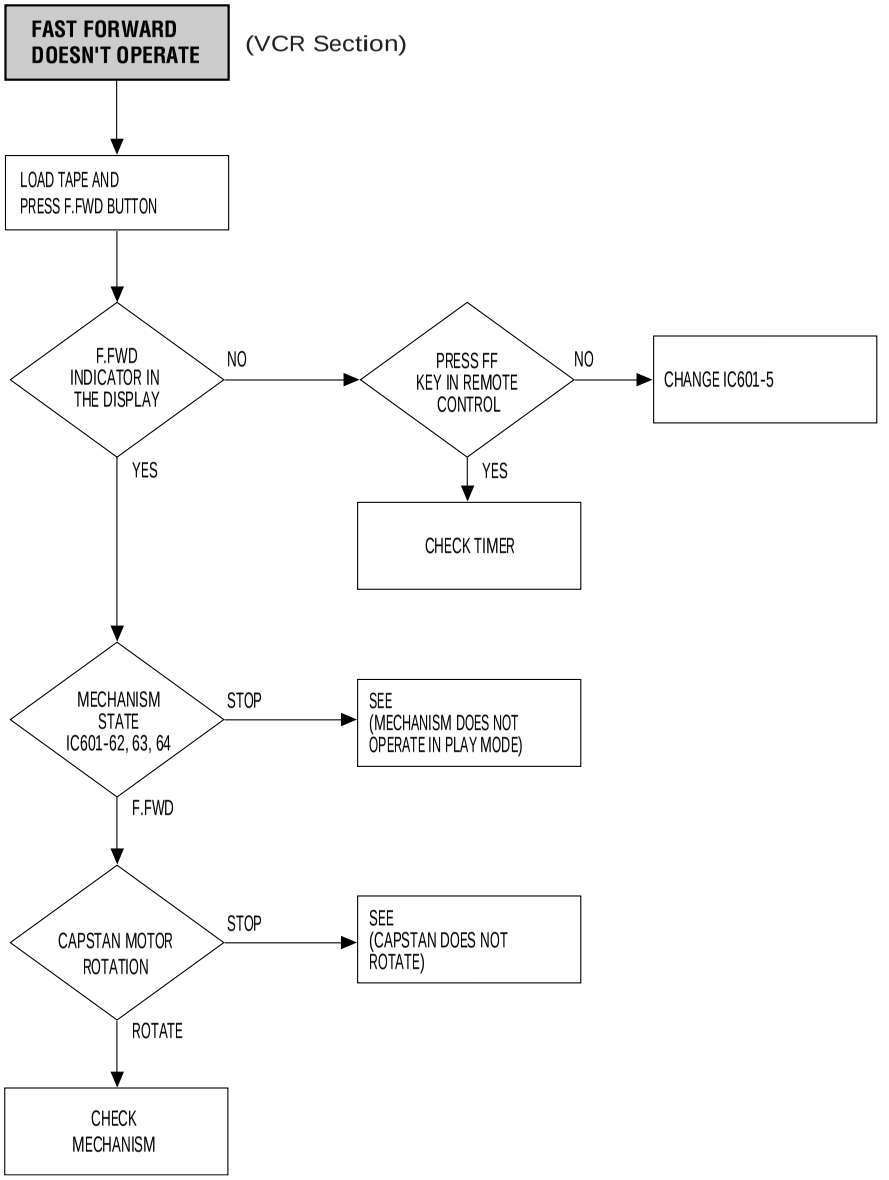


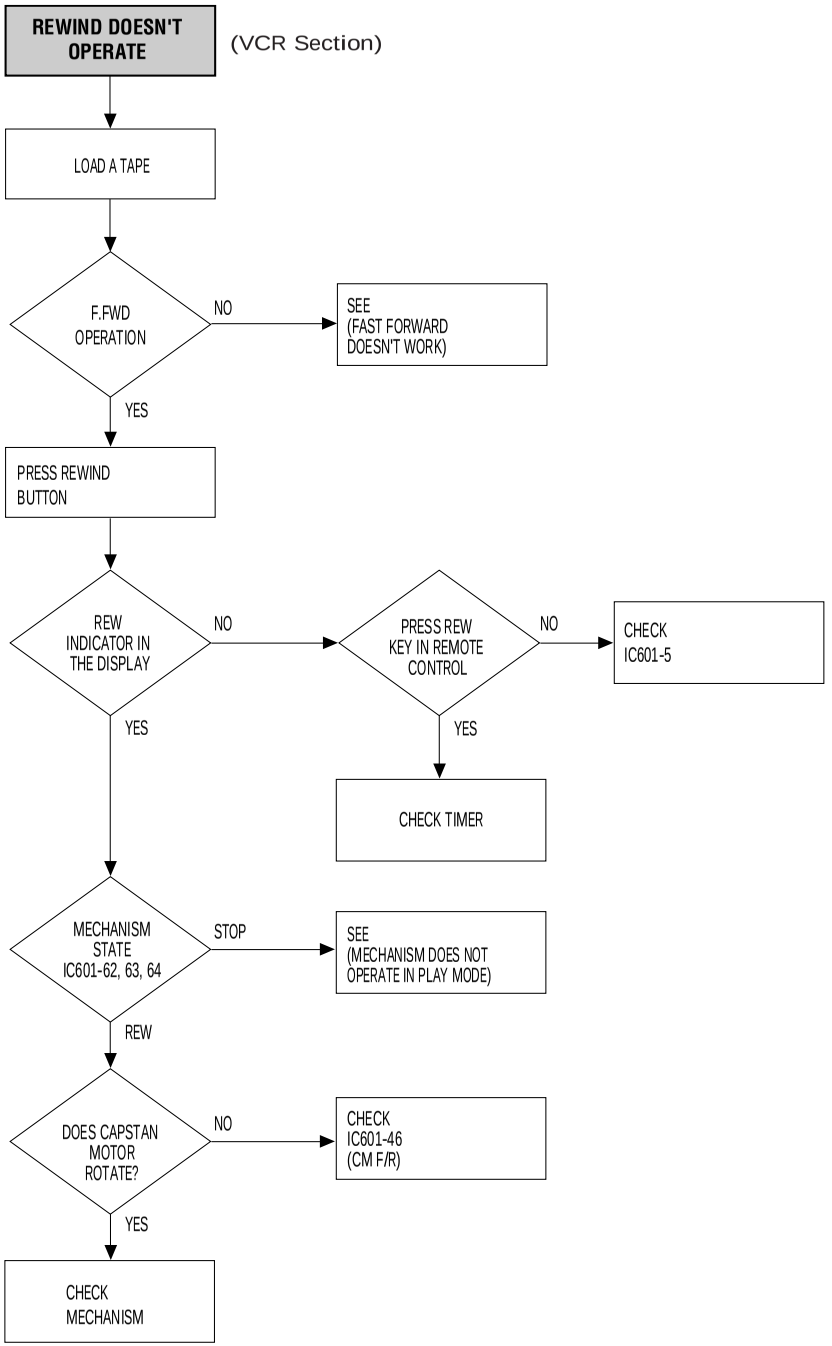


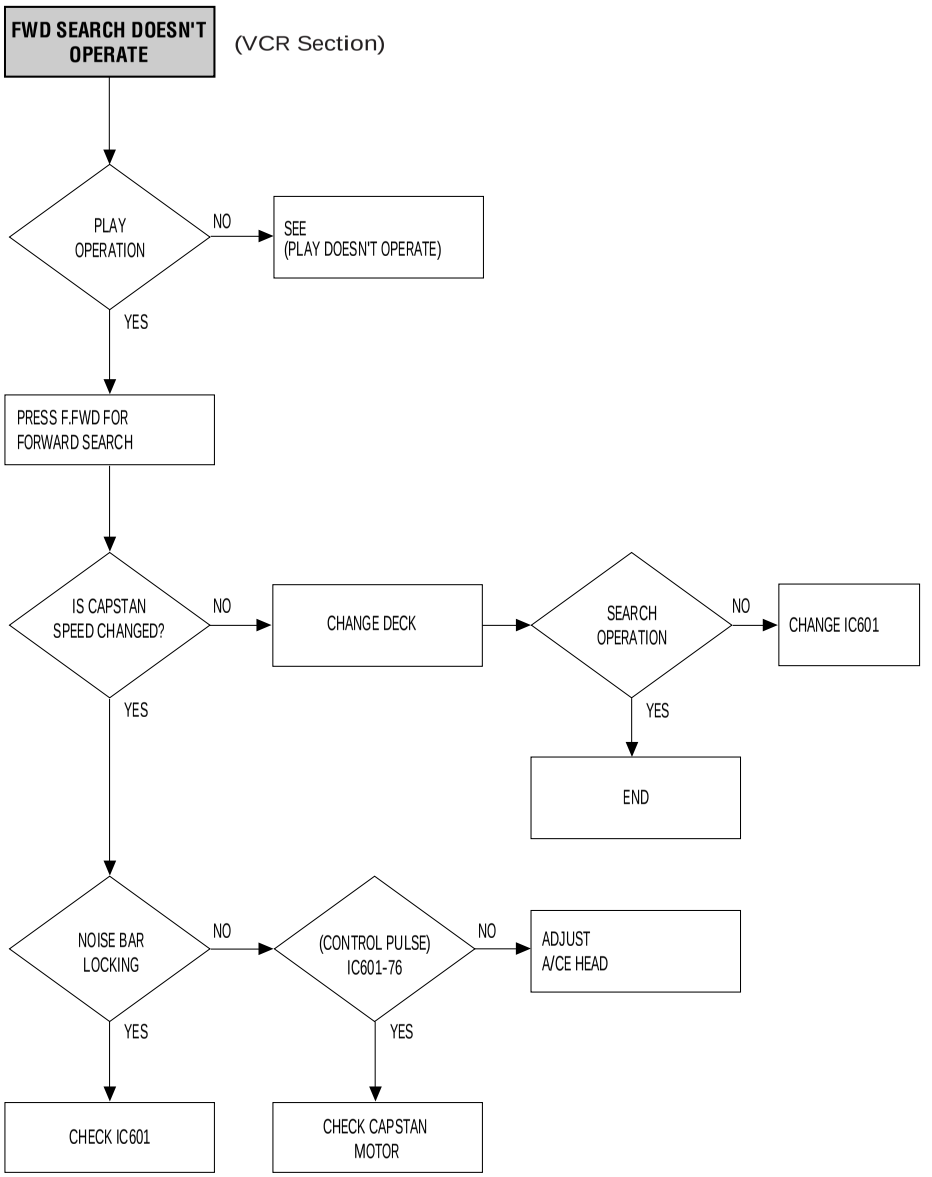

MECHANISM DOESN'T OPERATE IN PLAY MODE
(VCR Section)
TURN VCR POWER ON
LOAD A TAPE AND PRESS PLAY BUTTON
TAPE LOADING OPERATION
NO
YES
(LOAD) IC601-82:HIGH IC601-87:LOW
NO
YES
CHECK START/END SENSOR (S601/S602) IC601
CHECK LM B+ AND LM
(END SENSOR) IC601-82
LOW
CHECK TAPE AND END SENSOR
HIGH
CYLINDER ROTATION
NO
YES
SEE IC610-2, (CYLINDER DOES NOT ROTATE)
SW 30Hz IC601-23
NO
YES
CYL FG.PG IC601-65
A

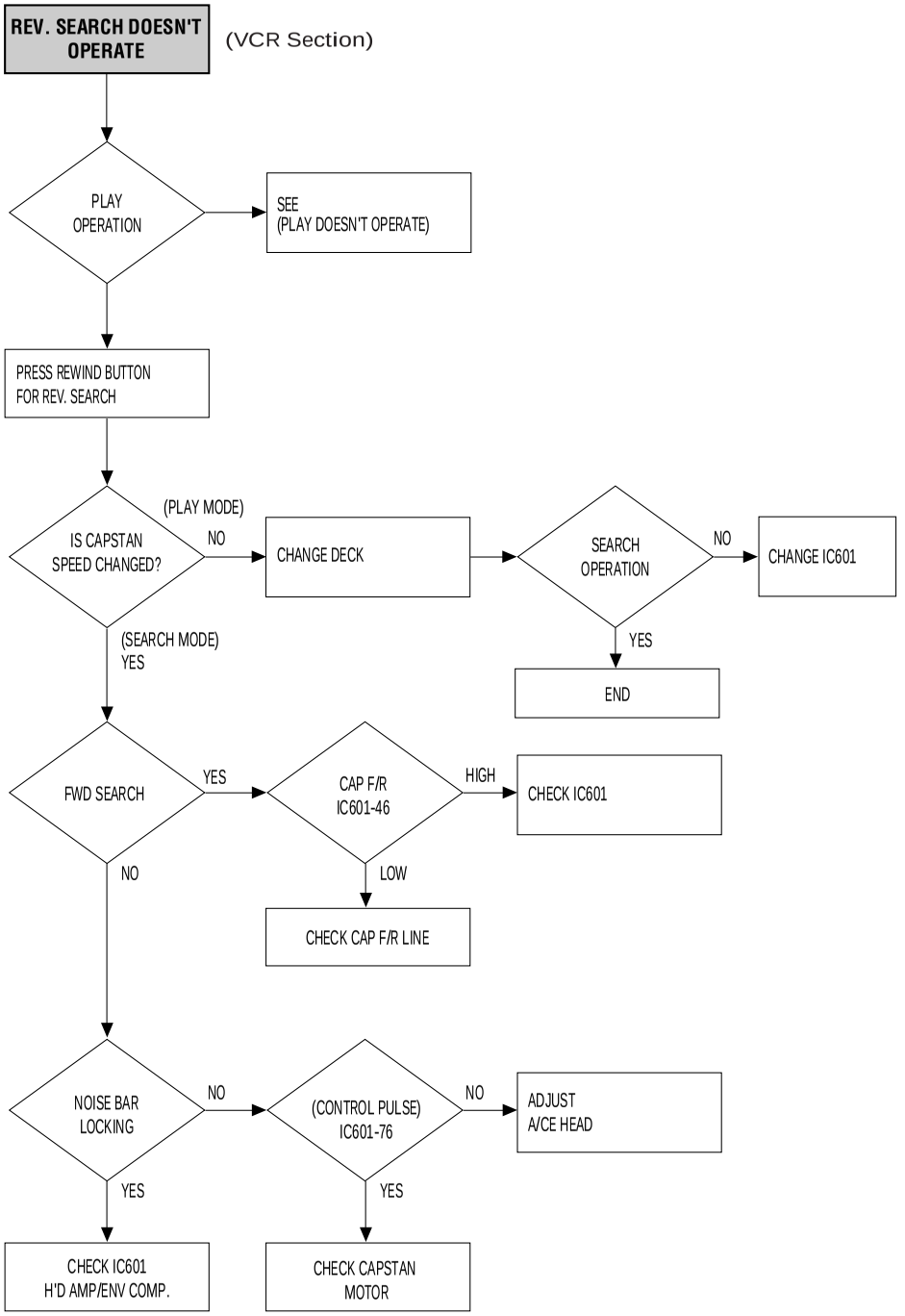

A
CAPSTAN ROTATION
NO
YES
SEE (CAPSTAN DOES NOT ROTATE)
(S.T REEL) IC601-1, 2
DC
PULSE
TAKE UP REEL SENSOR SUPPLY REEL SENSOR (PT601.PT602)
PROG.SW STATE IC601-62, 63, 64
STOP MODE
YES
CHECK LOADING MOTOR MECHANISM OR SW601
CHANGE IC601

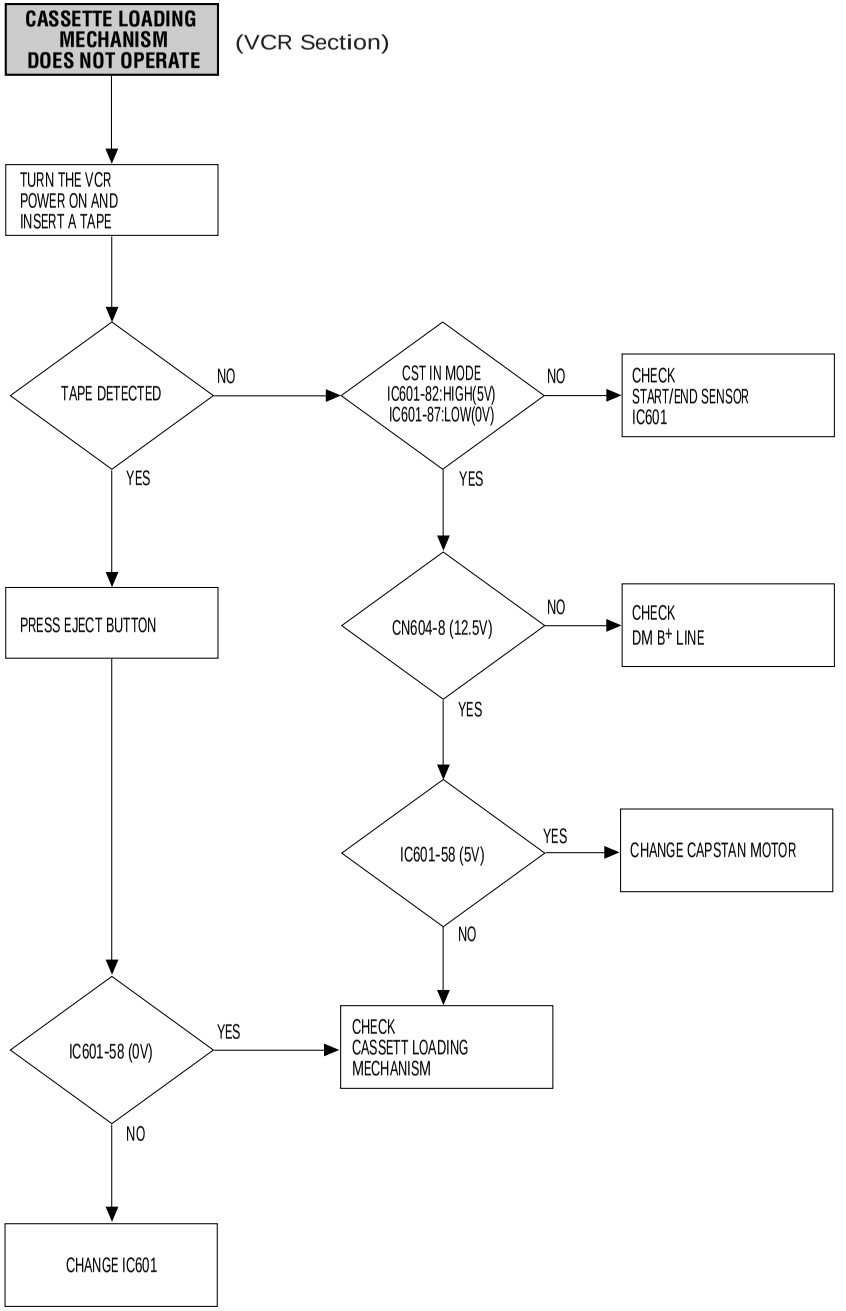

RECORD MODE DOESN'T OPERATE
(VCR Section)
PLAY OPERATION
NO
SEE (PLAY MODE DOESN'T OPERATE)
YES
LOAD VCR WITH A BLANK TAPE AND PRESS RECORD BUTTON
REC MODE
EJECT
SAFETY TAB
NO
CHANGE TAPE
YES
YES
CHANGE SW602 (REC SW)
D-REC A (H) IC601-29. 30
NO
CHECK IC601
YES
REC-VIDEO
NO
SEE (VIDEO MISSING IN RECORD MODE)
YES
SEE (AUDIO MISSING IN RECORD MODE)

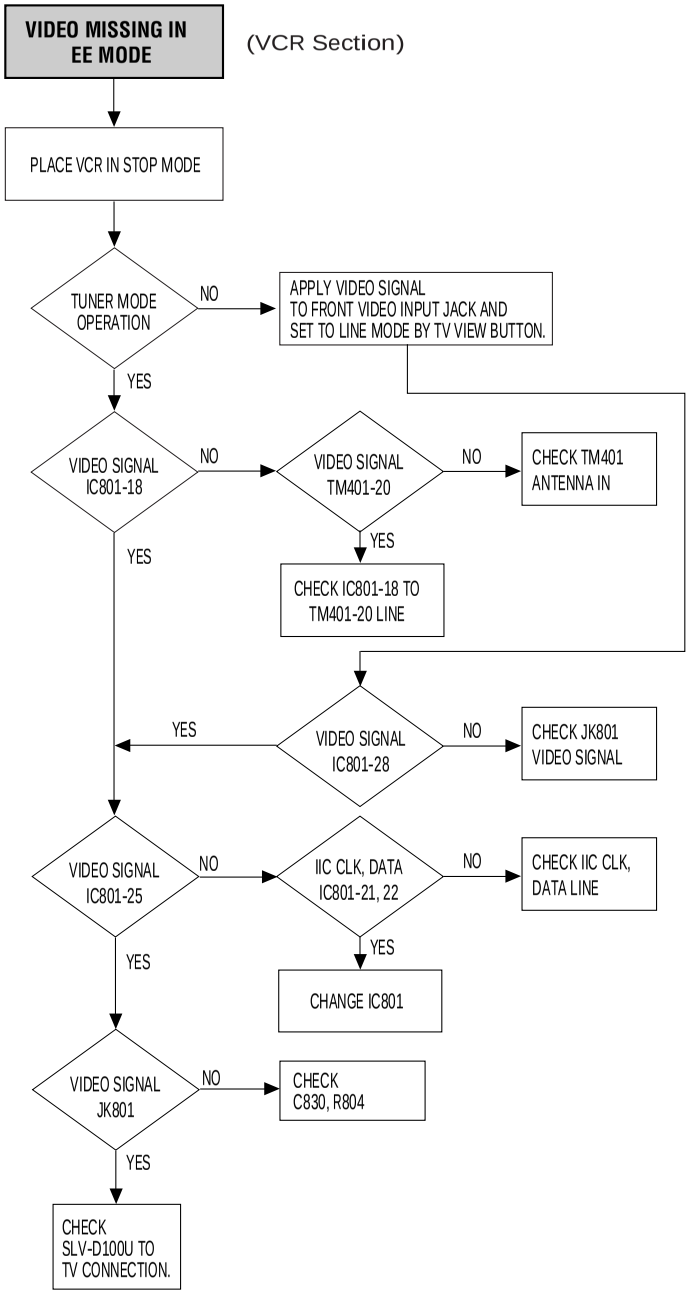

FAST FORWARD DOESN'T OPERATE
(VCR Section)
LOAD TAPE AND PRESS F.FWD BUTTON
F.FWD INDICATOR IN THE DISPLAY
NO
PRESS FF KEY IN REMOTE CONTROL
NO
CHANGE IC601-5
YES
YES
CHECK TIMER
MECHANISM STATE IC601-62, 63, 64
STOP
SEE (MECHANISM DOES NOT OPERATE IN PLAY MODE)
F.FWD
CAPSTAN MOTOR ROTATION
STOP
SEE (CAPSTAN DOES NOT ROTATE)
ROTATE
CHECK MECHANISM

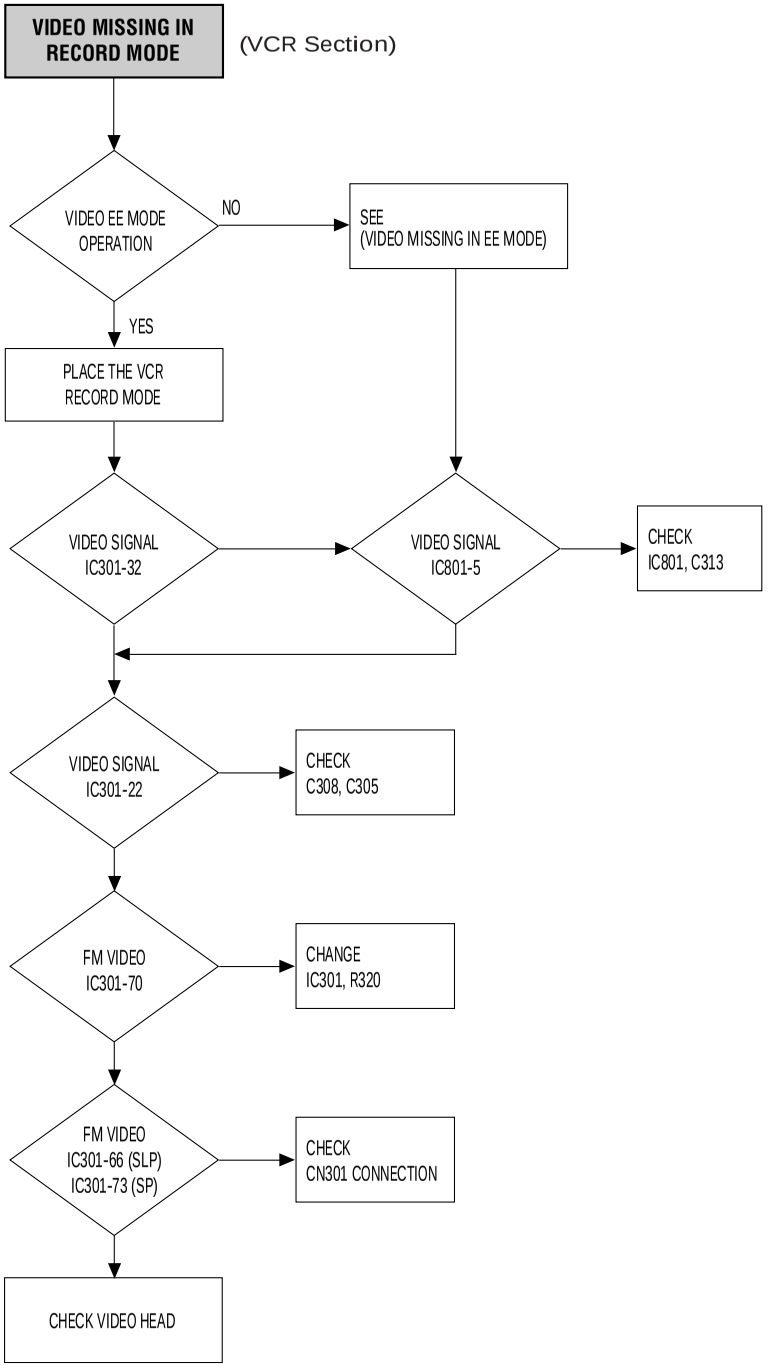

REWIND DOESN'T OPERATE
(VCR Section)
LOAD A TAPE
F.FWD OPERATION
NO
SEE (FAST FORWARD DOESN'T WORK)
YES
PRESS REWIND BUTTON
REW INDICATOR IN THE DISPLAY
NO
PRESS REW KEY IN REMOTE CONTROL
NO
CHECK IC601-5
YES
YES
CHECK TIMER
MECHANISM STATE IC601-62, 63, 64
STOP
SEE (MECHANISM DOES NOT OPERATE IN PLAY MODE)
REW
DOES CAPSTAN MOTOR ROTATE?
NO
CHECK IC601-46 (CM F/R)
YES
CHECK MECHANISM

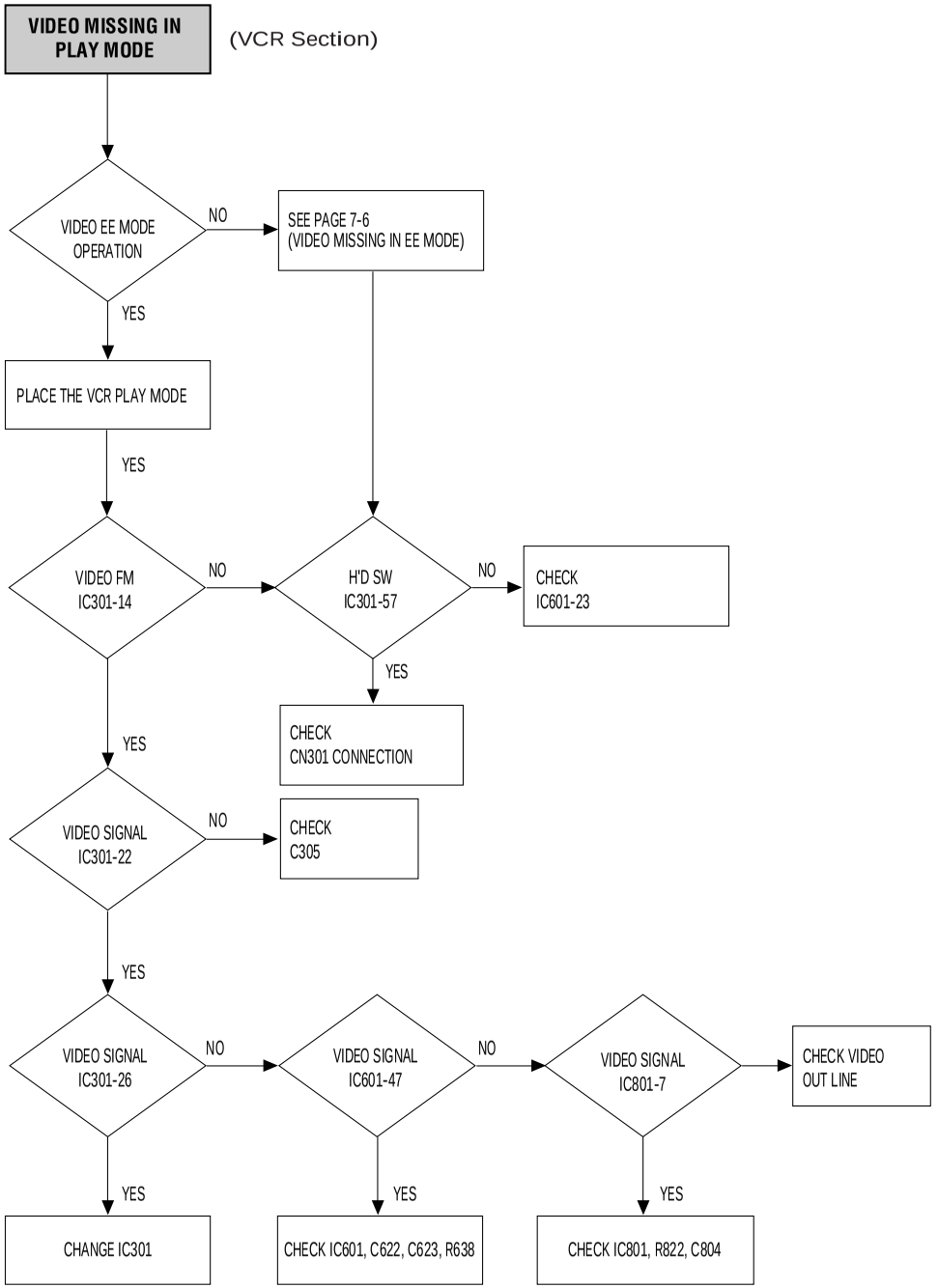

FWD SEARCH DOESN'T OPERATE
(VCR Section)
PLAY OPERATION
NO
SEE (PLAY DOESN'T OPERATE)
YES
PRESS F.FWD FOR FORWARD SEARCH
IS CAPSTAN SPEED CHANGED?
NO
CHANGE DECK
SEARCH OPERATION
NO
CHANGE IC601
YES
YES
END
NOISE BAR LOCKING
NO
(CONTROL PULSE) IC601-76
NO
ADJUST A/CE HEAD
YES
YES
CHECK IC601
CHECK CAPSTAN MOTOR

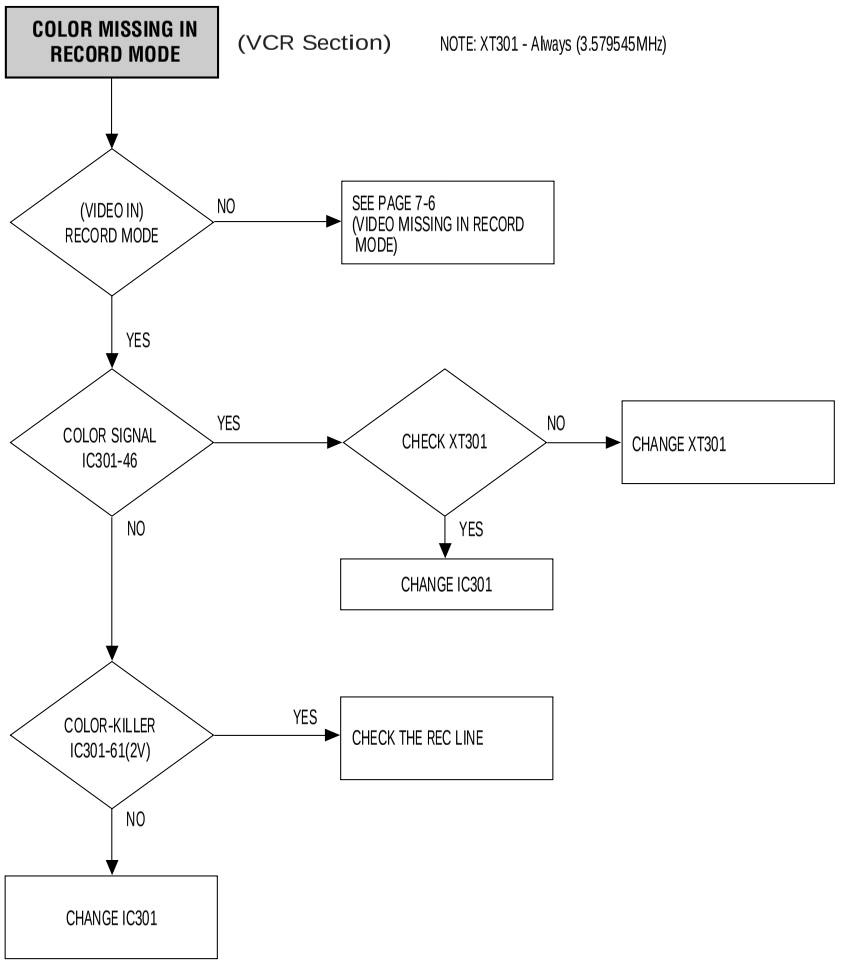

REV. SEARCH DOESN'T OPERATE
(VCR Section)
PLAY OPERATION
SEE (PLAY DOESN'T OPERATE)
PRESS REWIND BUTTON FOR REV. SEARCH
IS CAPSTAN SPEED CHANGED?
(PLAY MODE)
NO
CHANGE DECK
SEARCH OPERATION
NO
CHANGE IC601
YES
END
(SEARCH MODE)
YES
FWD SEARCH
YES
CAP F/R IC601-46
HIGH
CHECK IC601
LOW
CHECK CAP F/R LINE
NO
NOISE BAR LOCKING
NO
(CONTROL PULSE) IC601-76
NO
ADJUST A/CE HEAD
YES
YES
CHECK IC601 H'D AMP/ENV COMP.
CHECK CAPSTAN MOTOR

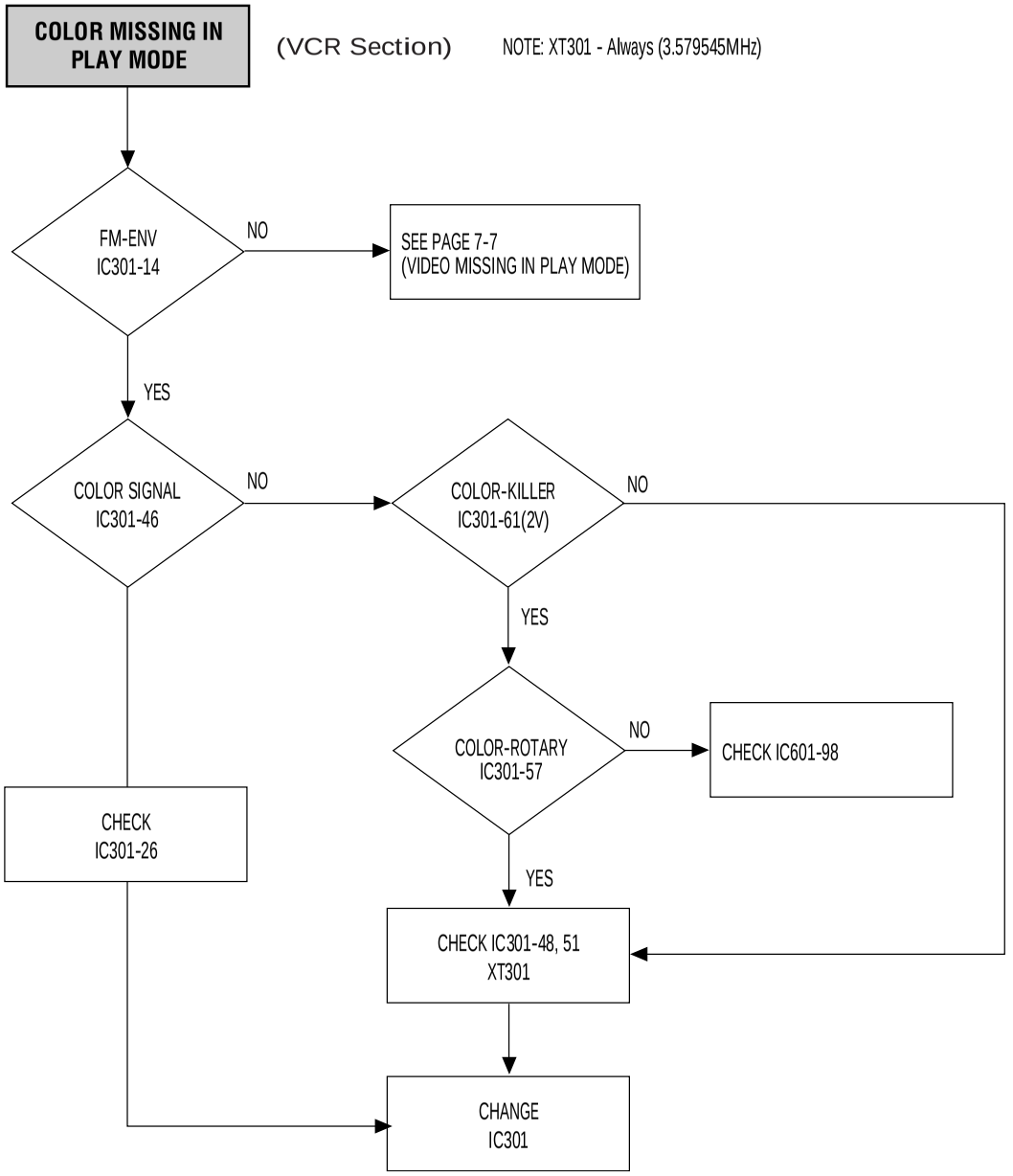

CASSETTE LOADING MECHANISM DOES NOT OPERATE
(VCR Section)
TURN THE VCR POWER ON AND INSERT A TAPE
TAPE DETECTED
NO
CST IN MODE IC601-82:HIGH(5V) IC601-87:LOW(0V)
NO
CHECK START/END SENSOR IC601
YES
YES
PRESS EJECT BUTTON
CN604-8 (12.5V)
NO
CHECK DM B+ LINE
YES
IC601-58 (5V)
YES
CHANGE CAPSTAN MOTOR
NO
IC601-58 (0V)
YES
CHECK CASSETT LOADING MECHANISM
NO
CHANGE IC601

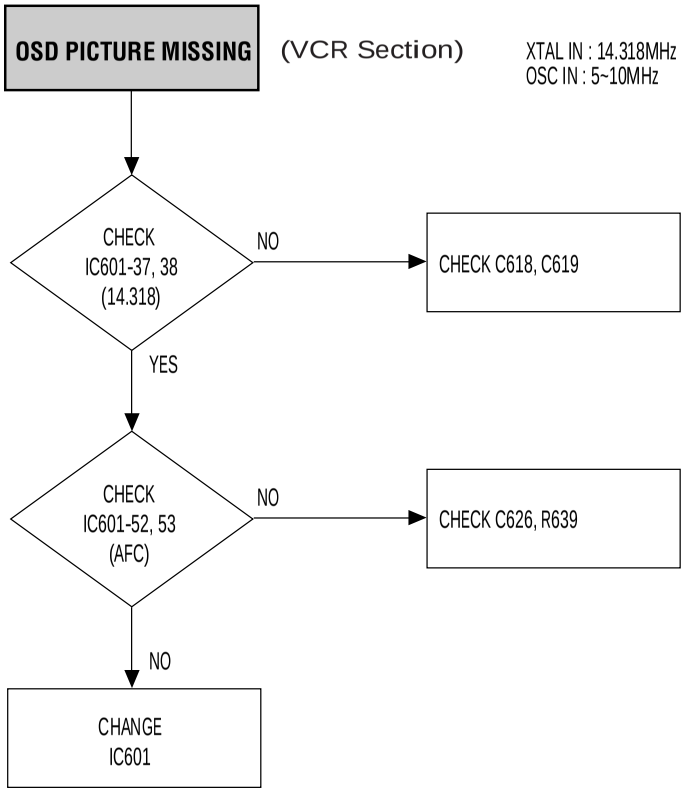

VIDEO MISSING IN EE MODE
(VCR Section)
PLACE VCR IN STOP MODE
TUNER MODE OPERATION
NO
APPLY VIDEO SIGNAL TO FRONT VIDEO INPUT JACK AND SET TO LINE MODE BY TV VIEW BUTTON.
YES
VIDEO SIGNAL IC801-18
NO
VIDEO SIGNAL TM401-20
NO
CHECK TM401 ANTENNA IN
YES
CHECK IC801-18 TO TM401-20 LINE
YES
VIDEO SIGNAL IC801-28
NO
CHECK JK801 VIDEO SIGNAL
VIDEO SIGNAL IC801-25
NO
IIC CLK, DATA IC801-21, 22
NO
CHECK IIC CLK, DATA LINE
YES
CHANGE IC801
YES
VIDEO SIGNAL JK801
NO
CHECK C830, R804
YES
CHECK SLV-D100U TO TV CONNECTION.

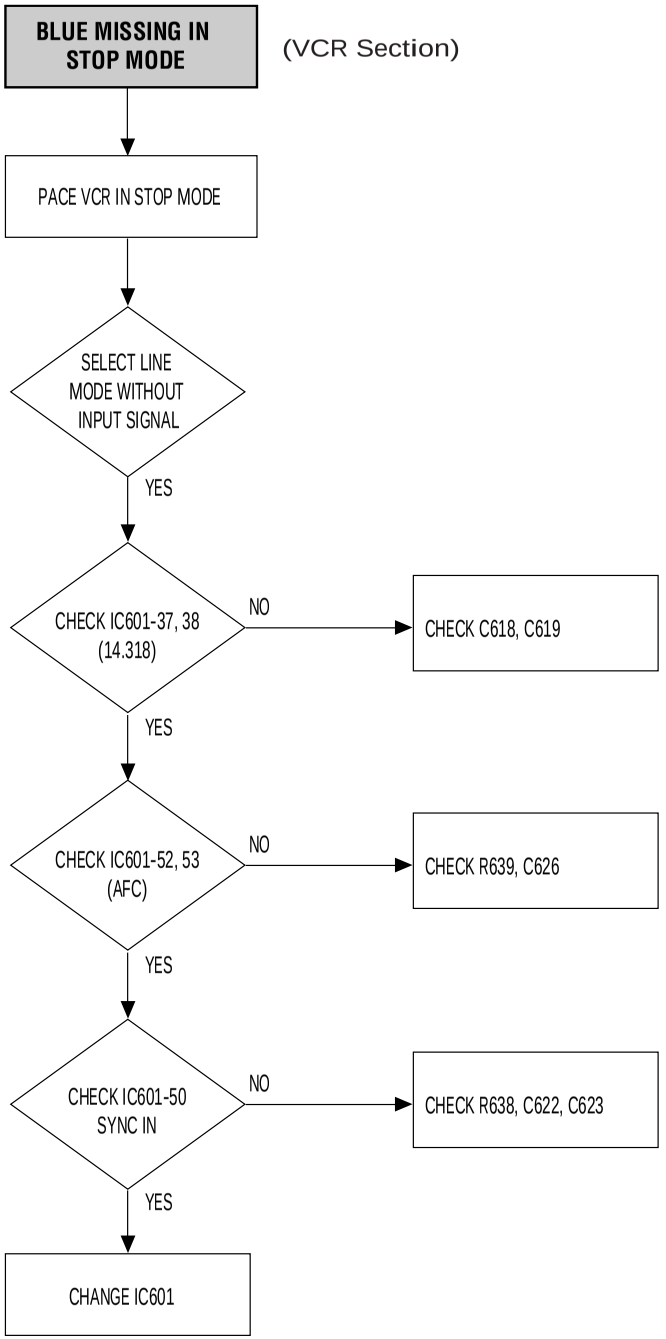

VIDEO MISSING IN RECORD MODE
(VCR Section)
VIDEO EE MODE OPERATION
NO
SEE (VIDEO MISSING IN EE MODE)
YES
PLACE THE VCR RECORD MODE
VIDEO SIGNAL IC301-32
VIDEO SIGNAL IC801-5
CHECK IC801, C313
VIDEO SIGNAL IC301-22
CHECK C308, C305
FM VIDEO IC301-70
CHANGE IC301, R320
FM VIDEO IC301-66 (SLP) IC301-73 (SP)
CHECK CN301 CONNECTION
CHECK VIDEO HEAD

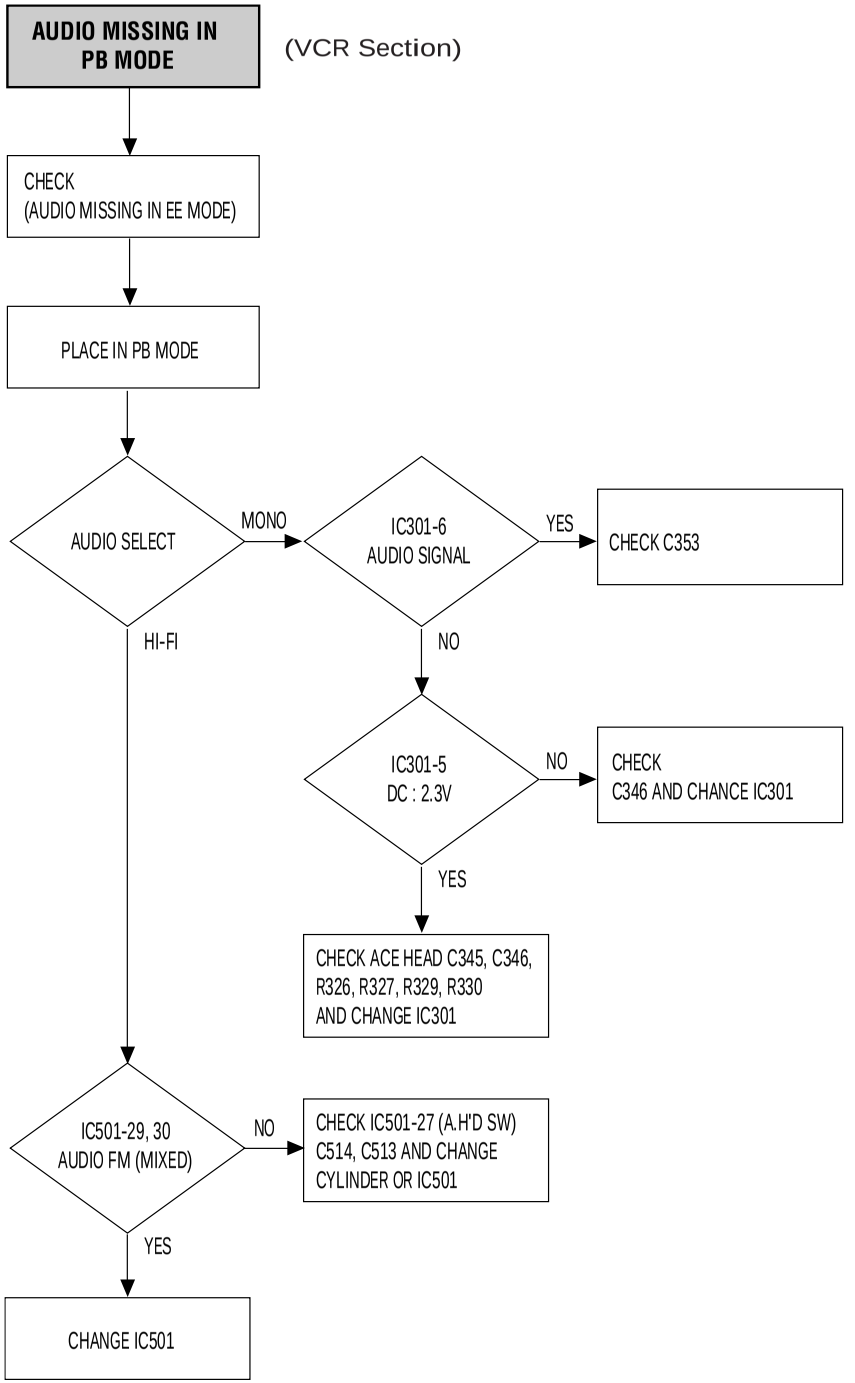

VIDEO MISSING IN PLAY MODE
(VCR Section)
VIDEO EE MODE OPERATION
NO
SEE PAGE 7-6 (VIDEO MISSING IN EE MODE)
YES
PLACE THE VCR PLAY MODE
YES
VIDEO FM IC301-14
NO
H'D SW IC301-57
NO
CHECK IC601-23
YES
CHECK CN301 CONNECTION
YES
VIDEO SIGNAL IC301-22
NO
CHECK C305
YES
VIDEO SIGNAL IC301-26
NO
VIDEO SIGNAL IC601-47
NO
VIDEO SIGNAL IC801-7
CHECK VIDEO OUT LINE
YES
CHANGE IC301
YES
CHECK IC601, C622, C623, R638
YES
CHECK IC801, R822, C804

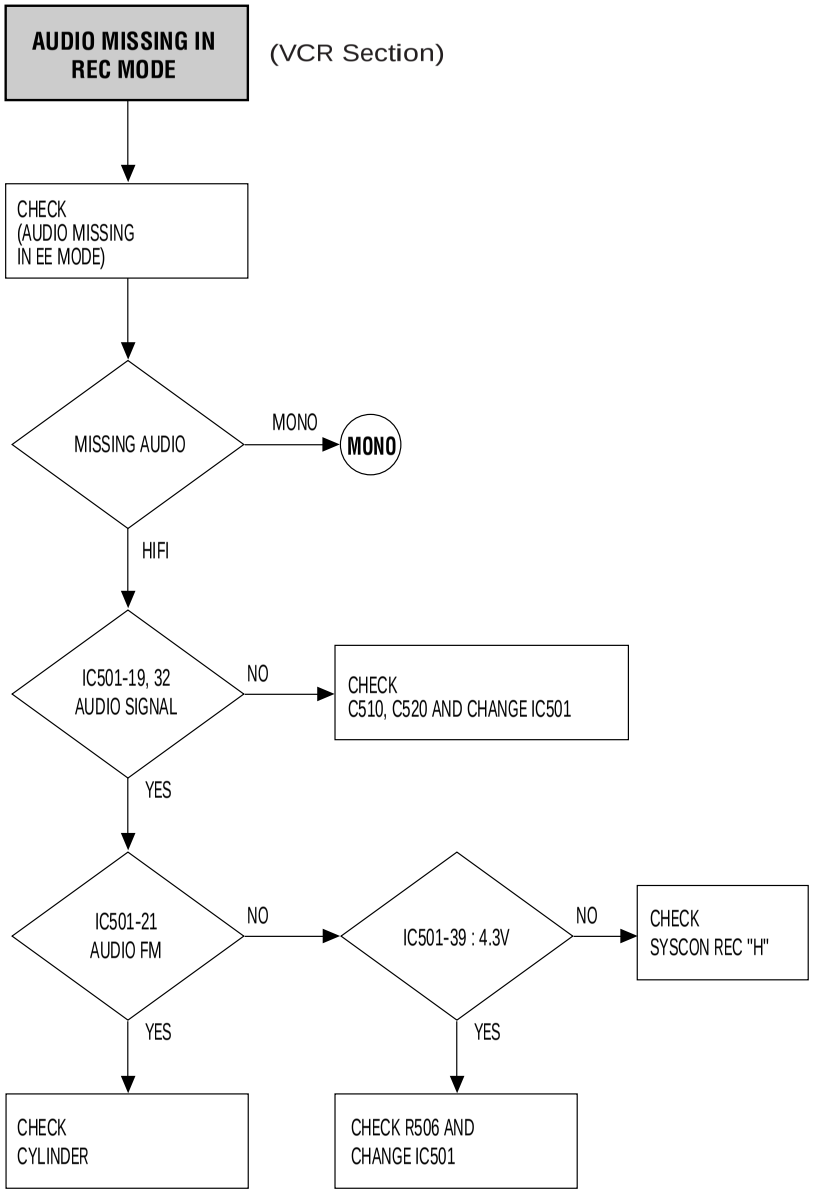

COLOR MISSING IN RECORD MODE
(VCR Section)
NOTE: XT301 - Always (3.579545MHz)
(VIDEO IN) RECORD MODE
NO
SEE PAGE 7-6 (VIDEO MISSING IN RECORD MODE)
YES
COLOR SIGNAL IC301-46
YES
CHECK XT301
NO
CHANGE XT301
YES
CHANGE IC301
NO
COLOR-KILLER IC301-61(2V)
YES
CHECK THE REC LINE
NO
CHANGE IC301

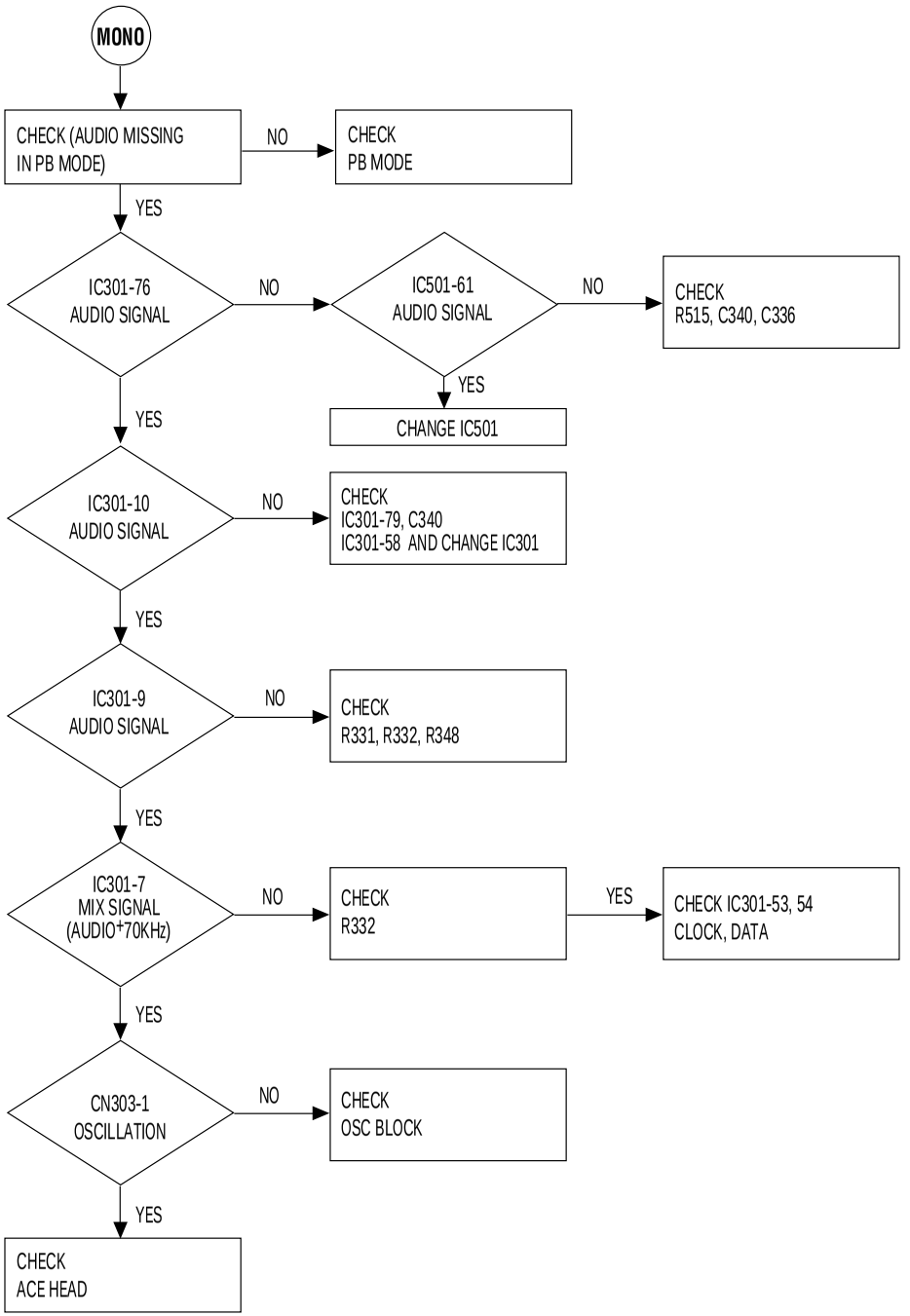

COLOR MISSING IN PLAY MODE
(VCR Section)
NOTE: XT301 - Always (3.579545MHz)
FM-ENV IC301-14
NO
SEE PAGE 7-7 (VIDEO MISSING IN PLAY MODE)
YES
COLOR SIGNAL IC301-46
NO
COLOR-KILLER IC301-61(2V)
NO
YES
COLOR-ROTARY IC301-57
NO
CHECK IC601-98
YES
CHECK IC301-26
CHECK IC301-48, 51 XT301
CHANGE IC301

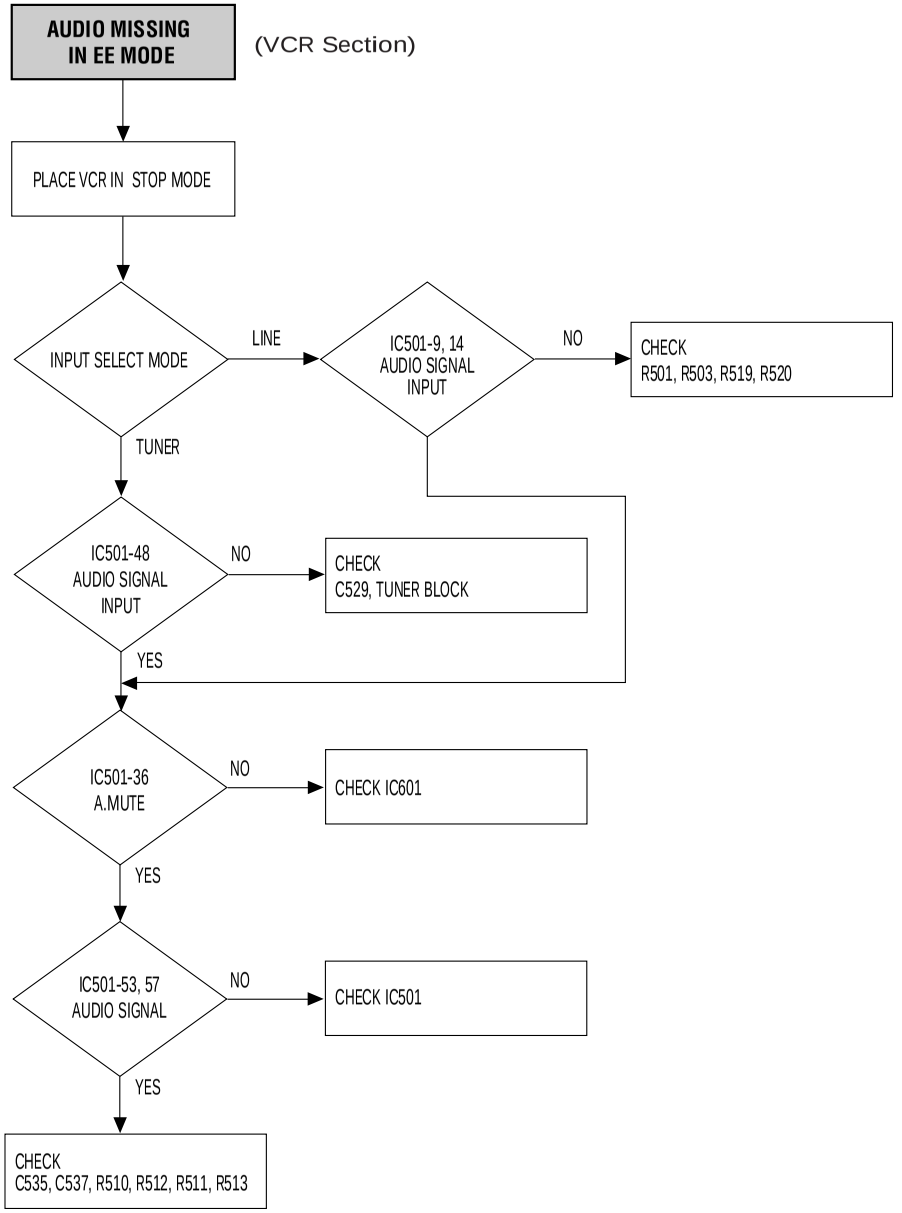

OSD PICTURE MISSING
(VCR Section)
XTAL IN : 14.318MHz
OSC IN : 5~10MHz
CHECK IC601-37, 38 (14.318)
NO
CHECK C618, C619
YES
CHECK IC601-52, 53 (AFC)
NO
CHECK C626, R639
NO
CHANGE IC601

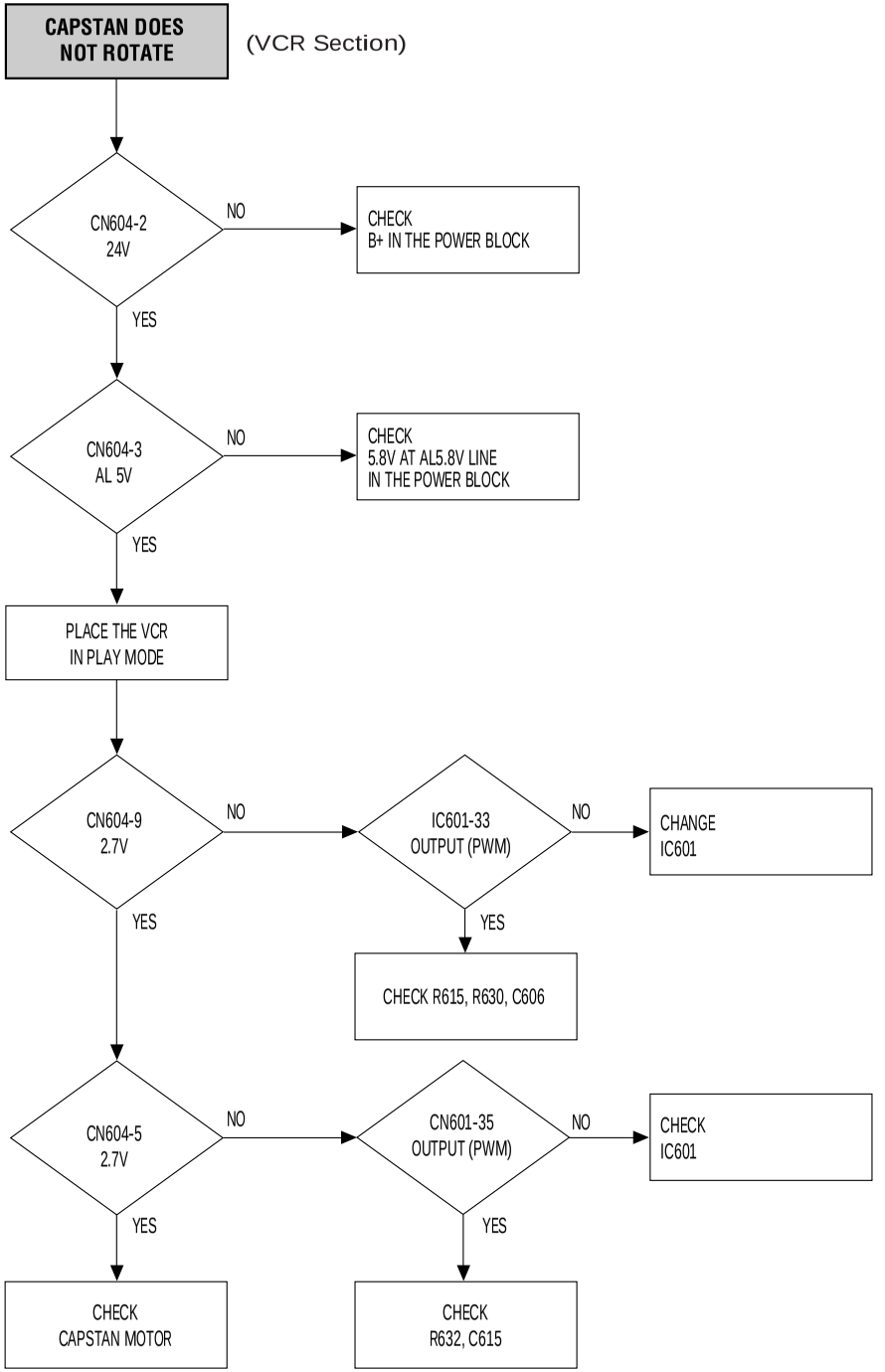

BLUE MISSING IN STOP MODE
(VCR Section)
PACE VCR IN STOP MODE
SELECT LINE MODE WITHOUT INPUT SIGNAL
YES
CHECK IC601-37, 38 (14.318)
NO
CHECK C618, C619
YES
CHECK IC601-52, 53 (AFC)
NO
CHECK R639, C626
YES
CHECK IC601-50 SYNC IN
NO
CHECK R638, C622, C623
YES
CHANGE IC601

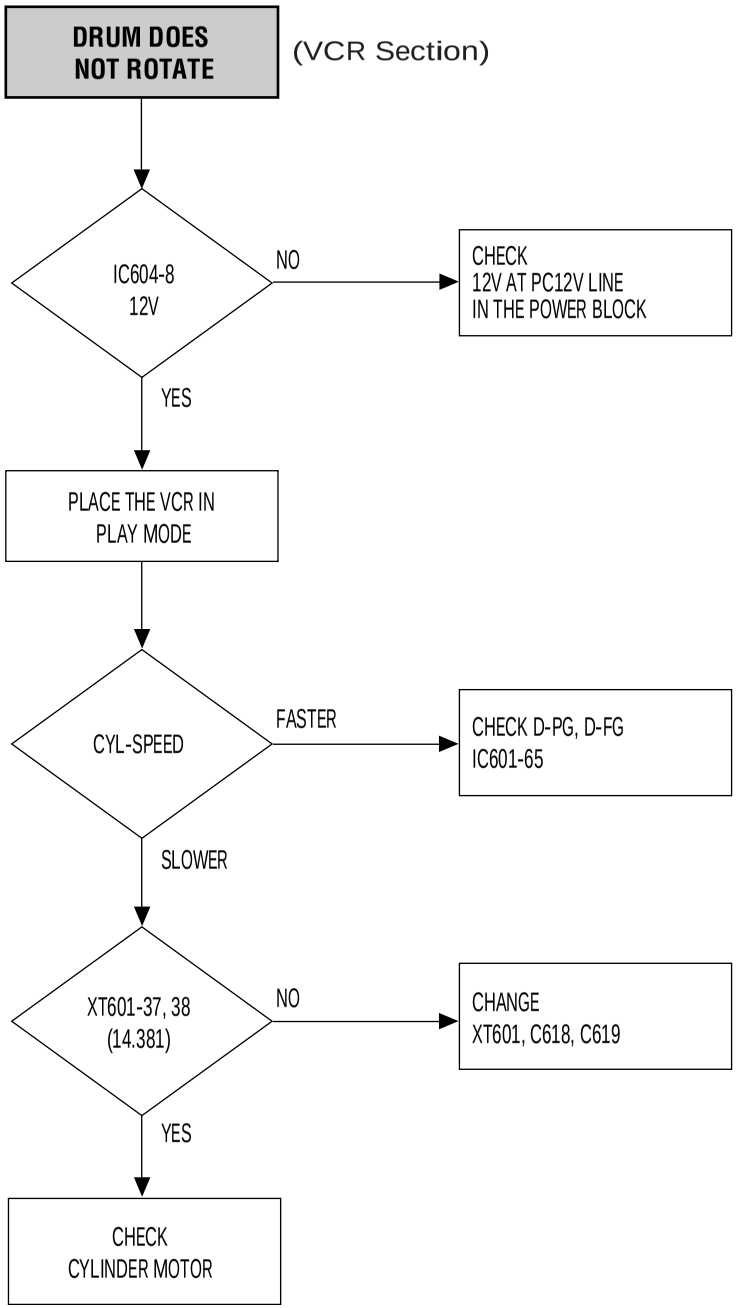

AUDIO MISSING IN PB MODE
(VCR Section)
CHECK (AUDIO MISSING IN EE MODE)
PLACE IN PB MODE
AUDIO SELECT
MONO
IC301-6 AUDIO SIGNAL
YES
CHECK C353
HI-FI
NO
IC301-5 DC : 2.3V
NO
CHECK C346 AND CHANCE IC301
YES
CHECK ACE HEAD C345, C346, R326, R327, R329, R330 AND CHANGE IC301
IC501-29, 30 AUDIO FM (MIXED)
NO
CHECK IC501-27 (A.H'D SW) C514, C513 AND CHANGE CYLINDER OR IC501
YES
CHANGE IC501

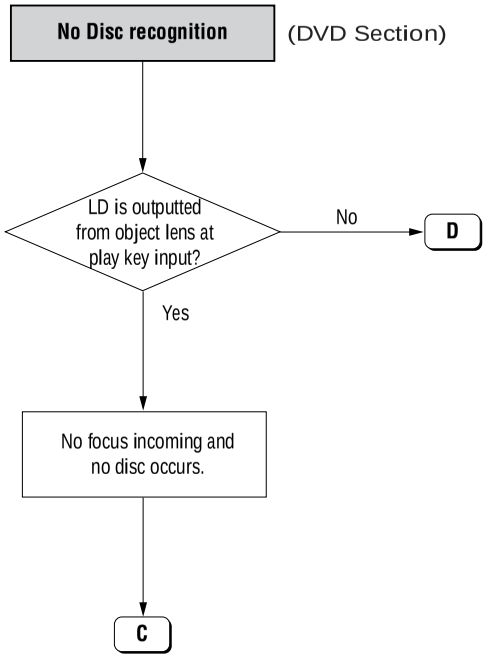

AUDIO MISSING IN REC MODE
(VCR Section)
CHECK (AUDIO MISSING IN EE MODE)
MISSING AUDIO
MONO
MONO
HIFI
IC501-19, 32 AUDIO SIGNAL
NO
CHECK C510, C520 AND CHANGE IC501
YES
IC501-21 AUDIO FM
NO
IC501-39 : 4.3V
NO
CHECK SYSCON REC "H"
YES
YES
CHECK CYLINDER
CHECK R506 AND CHANGE IC501

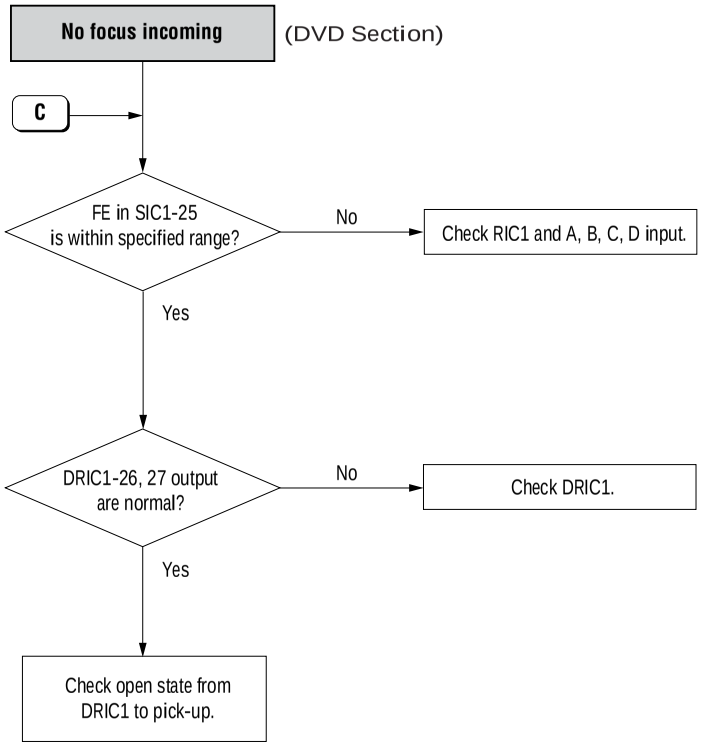

MONO
CHECK (AUDIO MISSING IN PB MODE)
NO
CHECK PB MODE
YES
IC301-76 AUDIO SIGNAL
NO
IC501-61 AUDIO SIGNAL
NO
CHECK R515, C340, C336
YES
CHANGE IC501
YES
IC301-10 AUDIO SIGNAL
NO
CHECK IC301-79, C340 IC301-58 AND CHANGE IC301
YES
IC301-9 AUDIO SIGNAL
NO
CHECK R331, R332, R348
YES
IC301-7 MIX SIGNAL (AUDIO+70KHz)
NO
CHECK R332
YES
CHECK IC301-53, 54 CLOCK, DATA
YES
CN303-1 OSCILLATION
NO
CHECK OSC BLOCK
YES
CHECK ACE HEAD

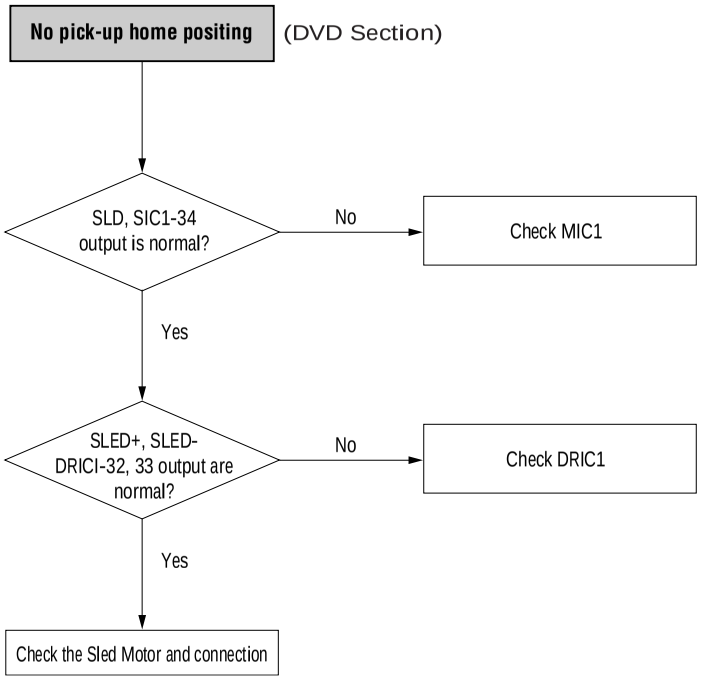

AUDIO MISSING IN EE MODE
(VCR Section)
PLACE VCR IN STOP MODE
INPUT SELECT MODE
LINE
IC501-9, 14 AUDIO SIGNAL INPUT
NO
CHECK R501, R503, R519, R520
TUNER
IC501-48 AUDIO SIGNAL INPUT
NO
CHECK C529, TUNER BLOCK
YES
IC501-36 A.MUTE
NO
CHECK IC601
YES
IC501-53, 57 AUDIO SIGNAL
NO
CHECK IC501
YES
CHECK C535, C537, R510, R512, R511, R513

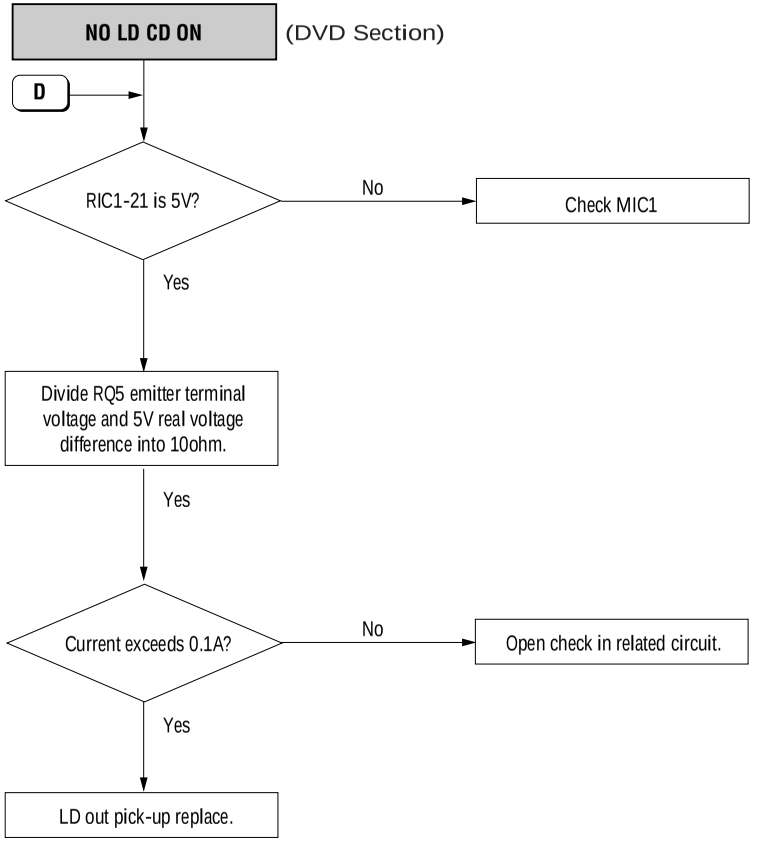

CAPSTAN DOES NOT ROTATE
(VCR Section)
CN604-2 24V
NO
CHECK B+ IN THE POWER BLOCK
YES
CN604-3 AL 5V
NO
CHECK 5.8V AT AL5.8V LINE IN THE POWER BLOCK
YES
PLACE THE VCR IN PLAY MODE
CN604-9 2.7V
NO
IC601-33 OUTPUT (PWM)
NO
CHANGE IC601
YES
YES
CHECK R615, R630, C606
CN604-5 2.7V
NO
CN601-35 OUTPUT (PWM)
NO
CHECK IC601
YES
YES
CHECK CAPSTAN MOTOR
CHECK R632, C615

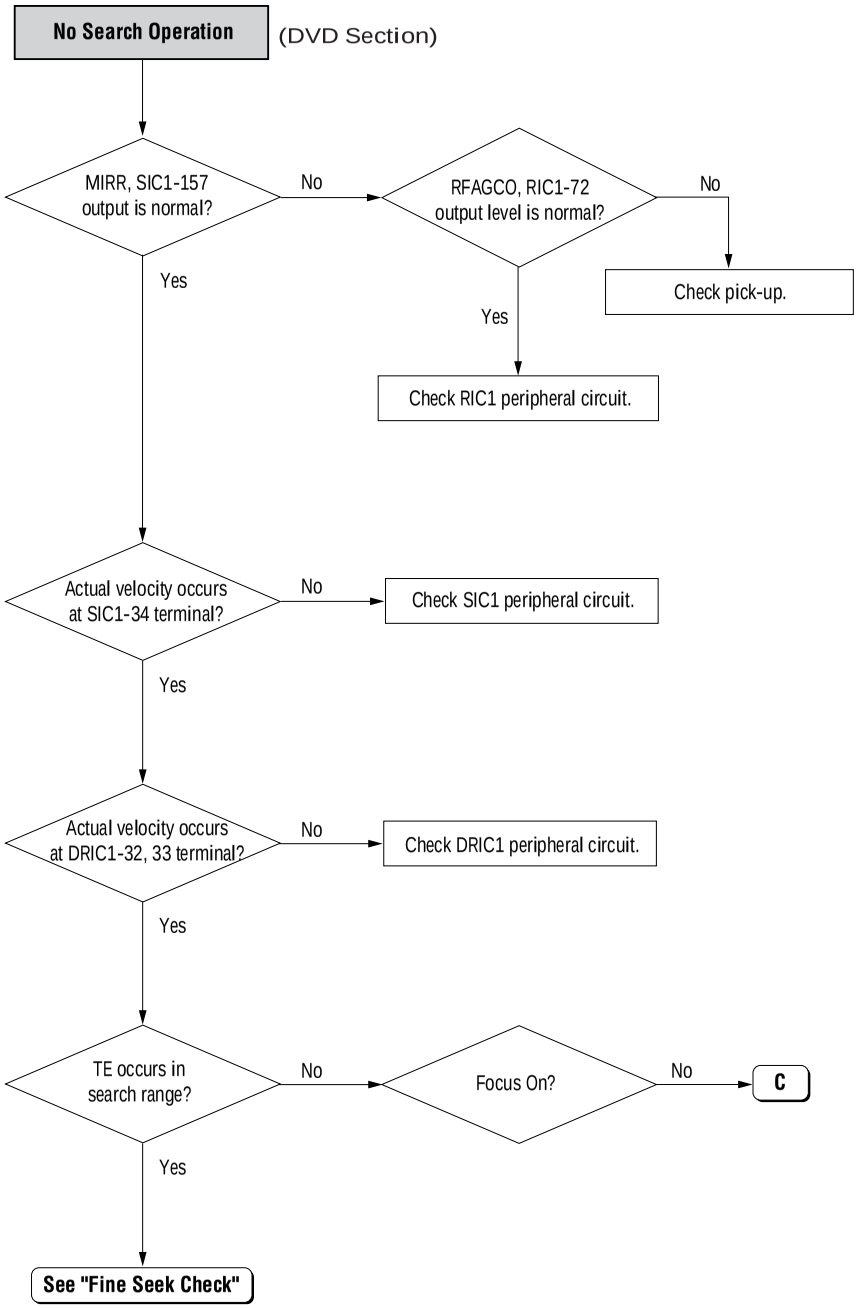

DRUM DOES NOT ROTATE
(VCR Section)
IC604-8 12V
NO
CHECK 12V AT PC12V LINE IN THE POWER BLOCK
YES
PLACE THE VCR IN PLAY MODE
CYL-SPEED
FASTER
CHECK D-PG, D-FG IC601-65
SLOWER
XT601-37, 38 (14.381)
NO
CHANGE XT601, C618, C619
YES
CHECK CYLINDER MOTOR

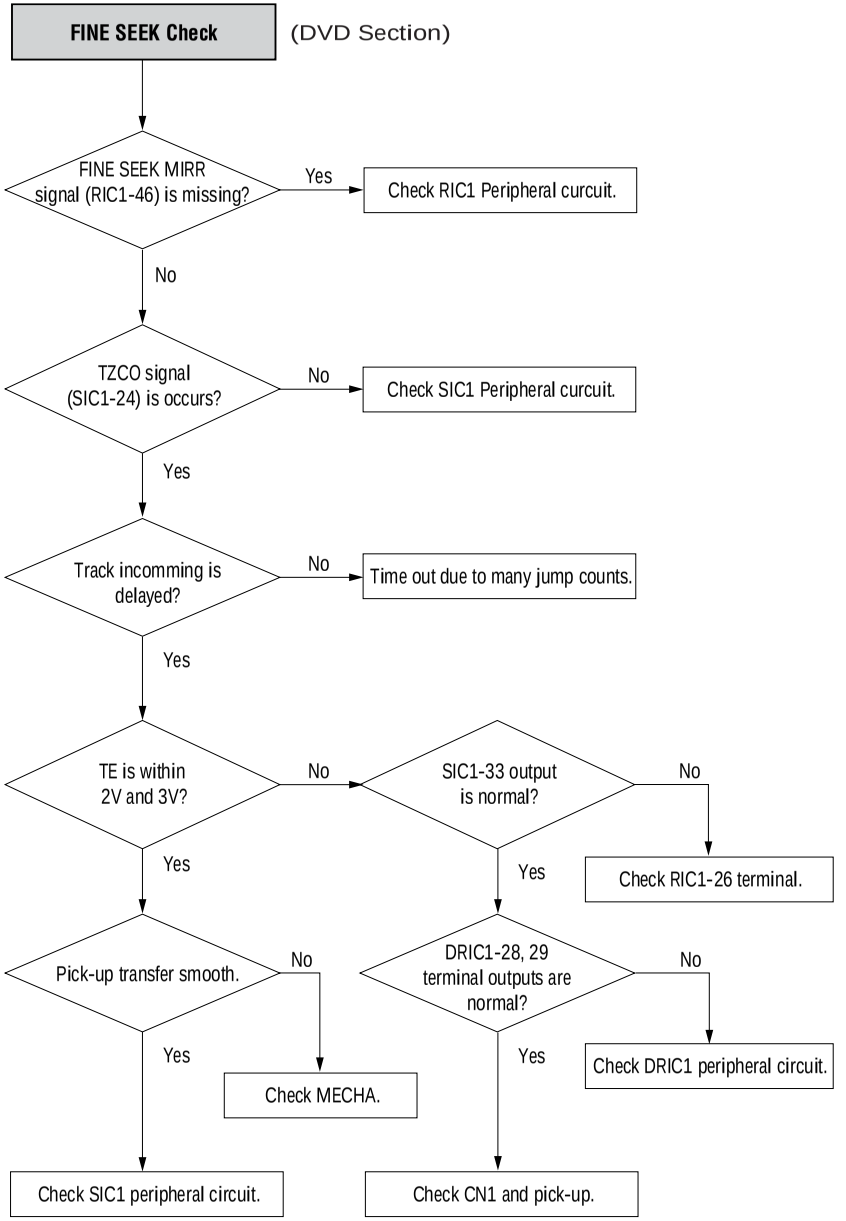

No Disc recognition
(DVD Section)
LD is outputted from object lens at play key input?
No
D
Yes
No focus incoming and no disc occurs.
C


No focus incoming
(DVD Section)
C
FE in SIC1-25 is within specified range?
No
Check RIC1 and A, B, C, D input.
Yes
DRIC1-26, 27 output are normal?
No
Check DRIC1.
Yes
Check open state from DRIC1 to pick-up.

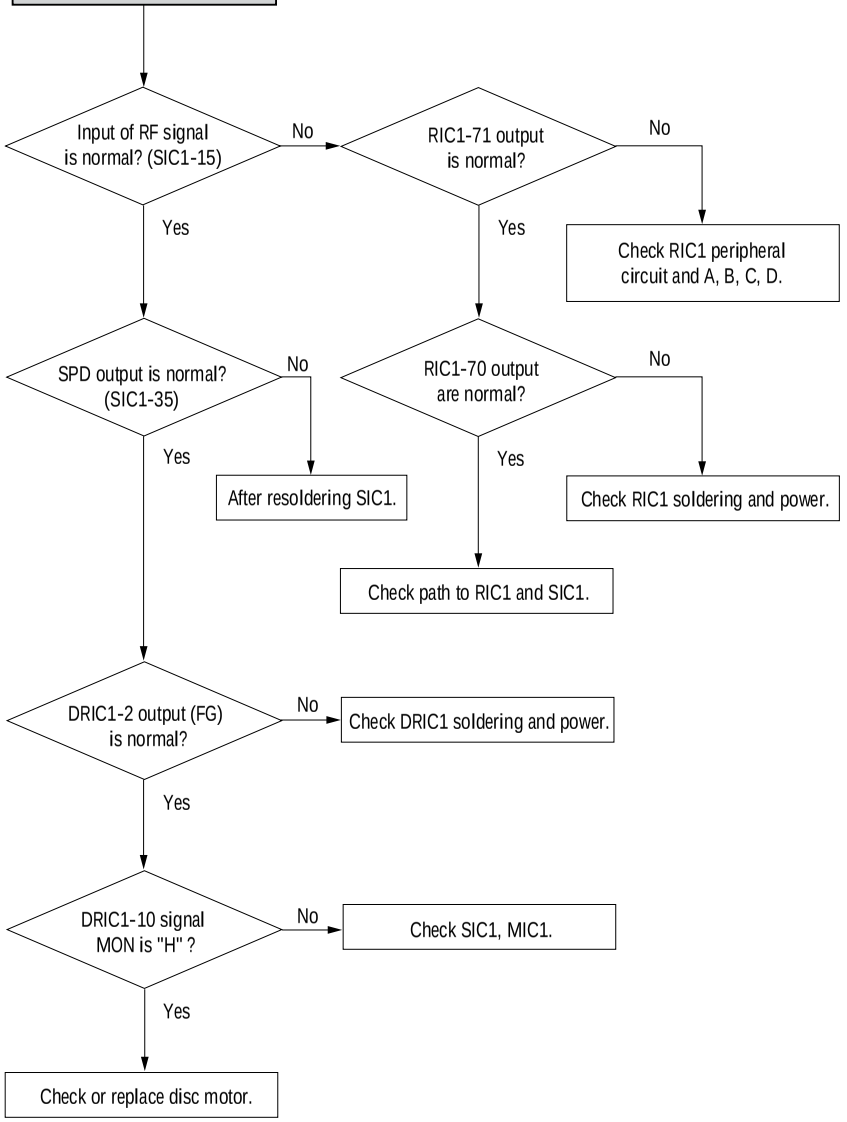

No pick-up home positing
(DVD Section)
SLD, SIC1-34 output is normal?
No
Check MIC1
Yes
SLED+, SLED- DRICI-32, 33 output are normal?
No
Check DRIC1
Yes
Check the Sled Motor and connection


NO LD CD ON
(DVD Section)
D
RIC1-21 is 5V?
No
Check MIC1
Yes
Divide RQ5 emitter terminal voltage and 5V real voltage difference into 10ohm.
Yes
Current exceeds 0.1A?
No
Open check in related circuit.
Yes
LD out pick-up replace.

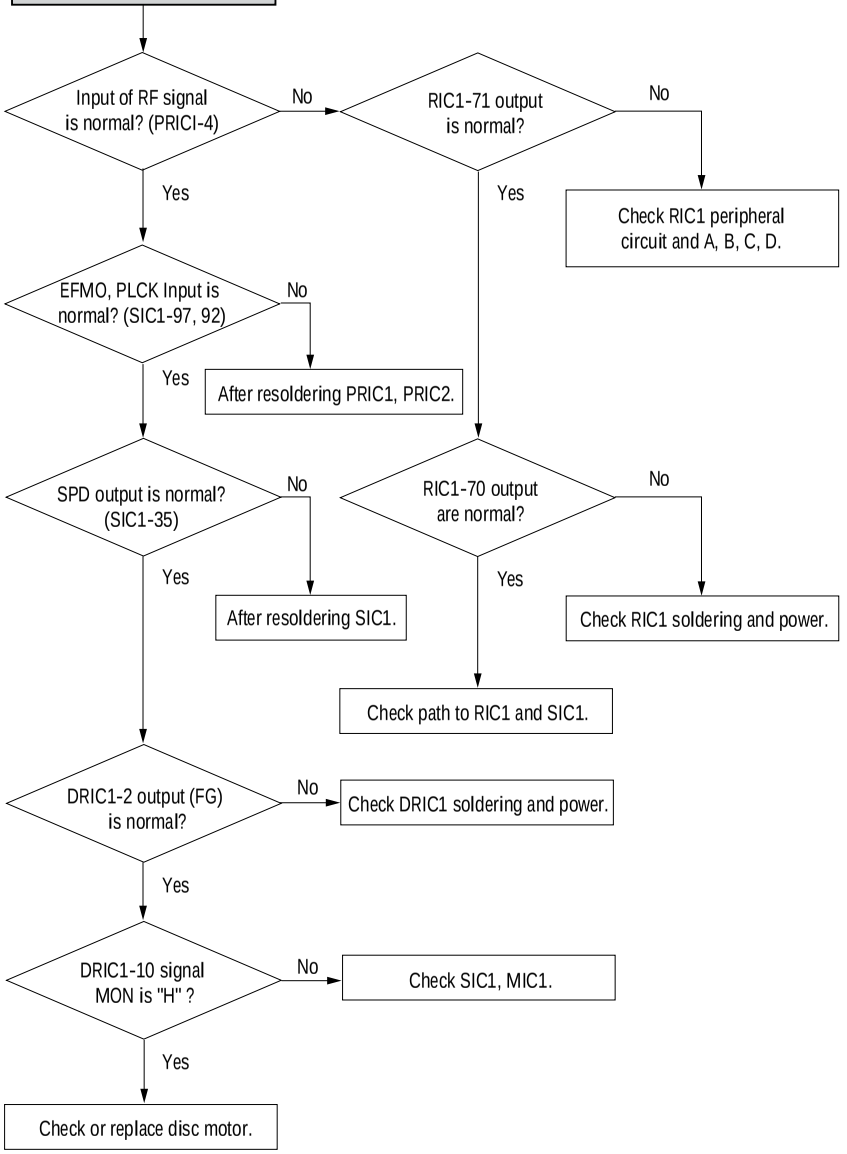

No Search Operation
(DVD Section)
MIRR, SIC1-157 output is normal?
No
RFAGCO, RIC1-72 output level is normal?
No
Check pick-up.
Yes
Yes
Check RIC1 peripheral circuit.
Actual velocity occurs at SIC1-34 terminal?
No
Check SIC1 peripheral circuit.
Yes
Actual velocity occurs at DRIC1-32, 33 terminal?
No
Check DRIC1 peripheral circuit.
Yes
TE occurs in search range?
No
Focus On?
No
C
Yes
See "Fine Seek Check"

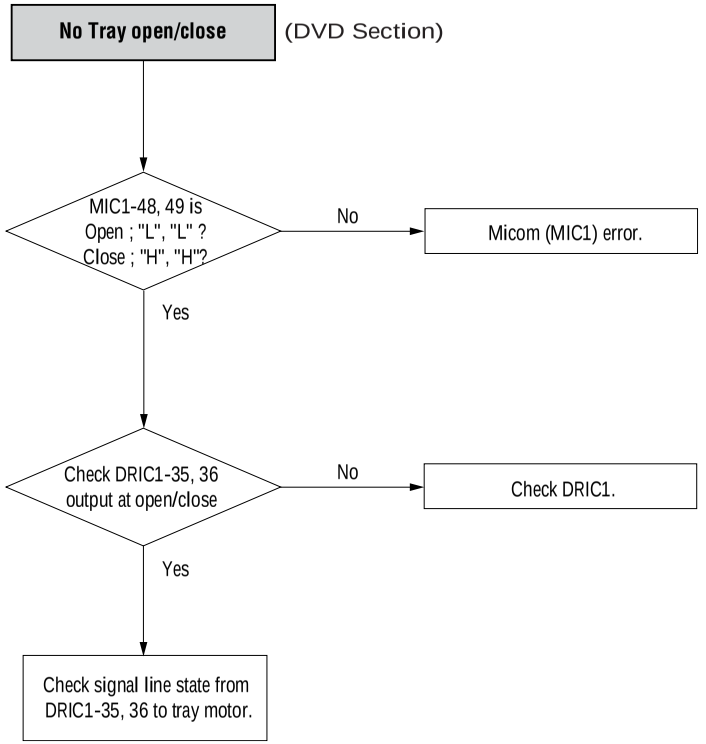

FINE SEEK Check
(DVD Section)
FINE SEEK MIRR signal (RIC1-46) is missing?
Yes
Check RIC1 Peripheral curcuit.
No
TZCO signal (SIC1-24) is occurs?
No
Check SIC1 Peripheral curcuit.
Yes
Track incomming is delayed?
No
Time out due to many jump counts.
Yes
TE is within 2V and 3V?
No
SIC1-33 output is normal?
No
Check RIC1-26 terminal.
Yes
Yes
Pick-up transfer smooth.
No
Check MECHA.
Yes
DRIC1-28, 29 terminal outputs are normal?
No
Check DRIC1 peripheral circuit.
Yes
Check SIC1 peripheral circuit.
Check CN1 and pick-up.

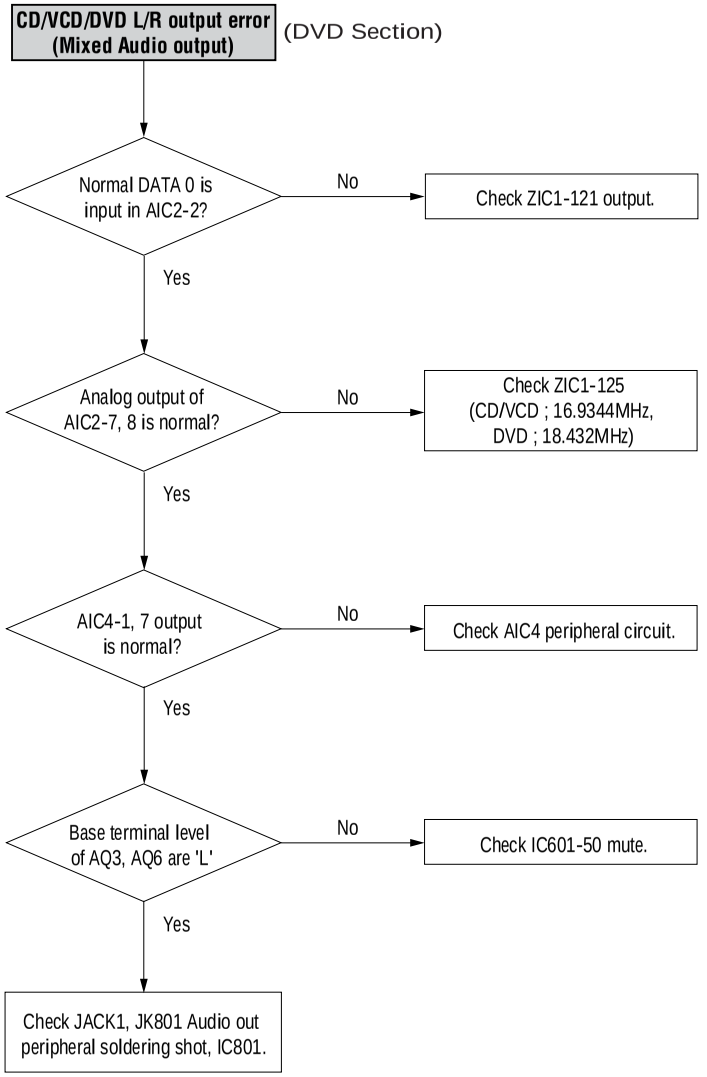
Abnormal rotation of disc motor (DVD Section), CD Play

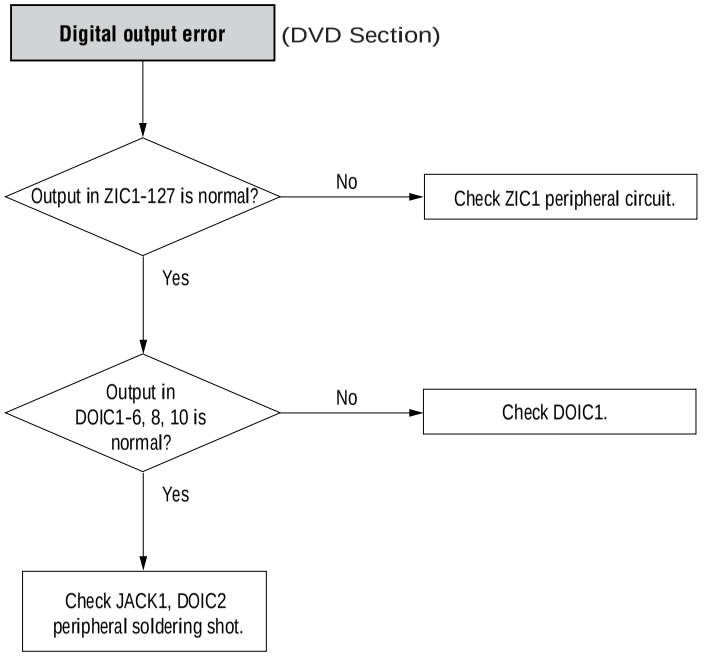


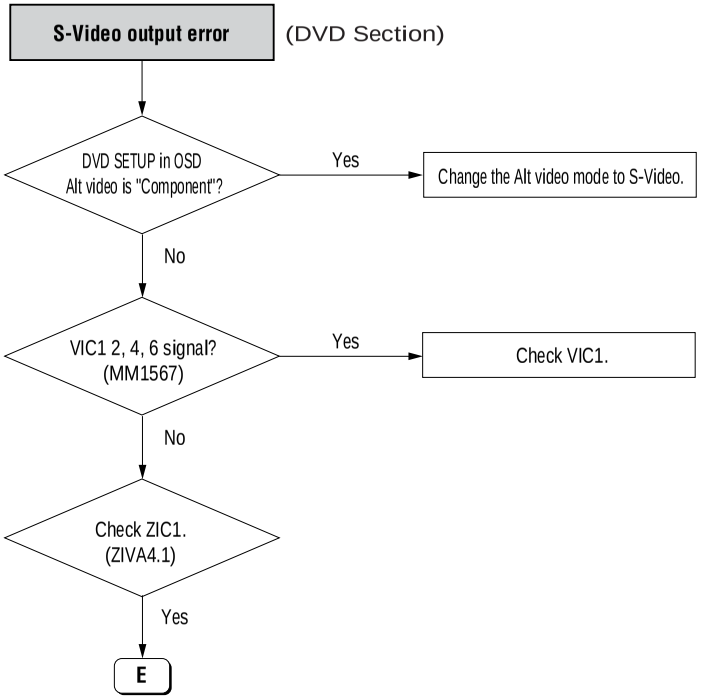
Abnormal rotation of disc motor (DVD Section), DVD Play

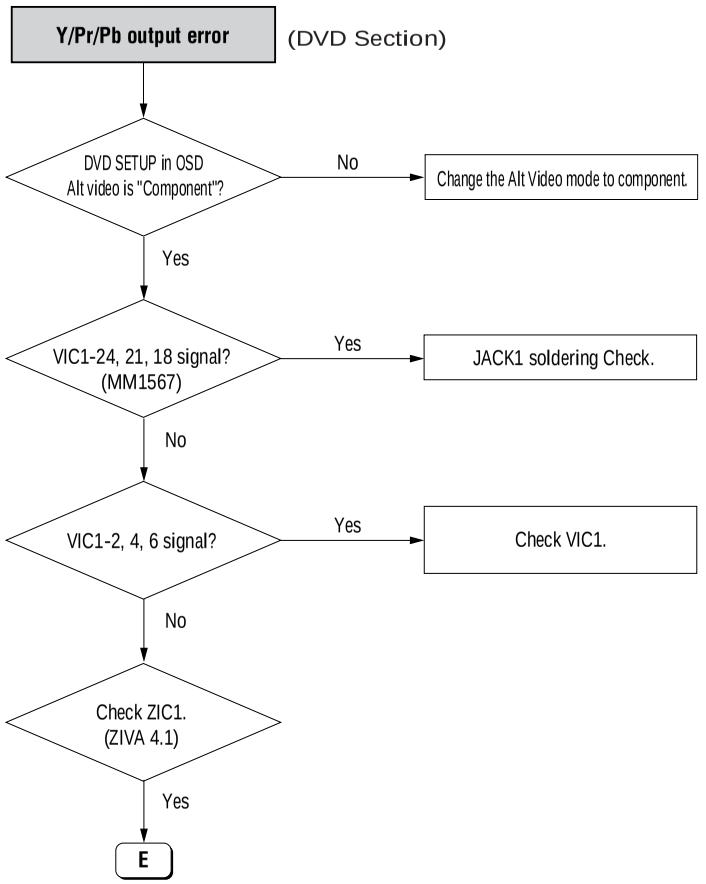


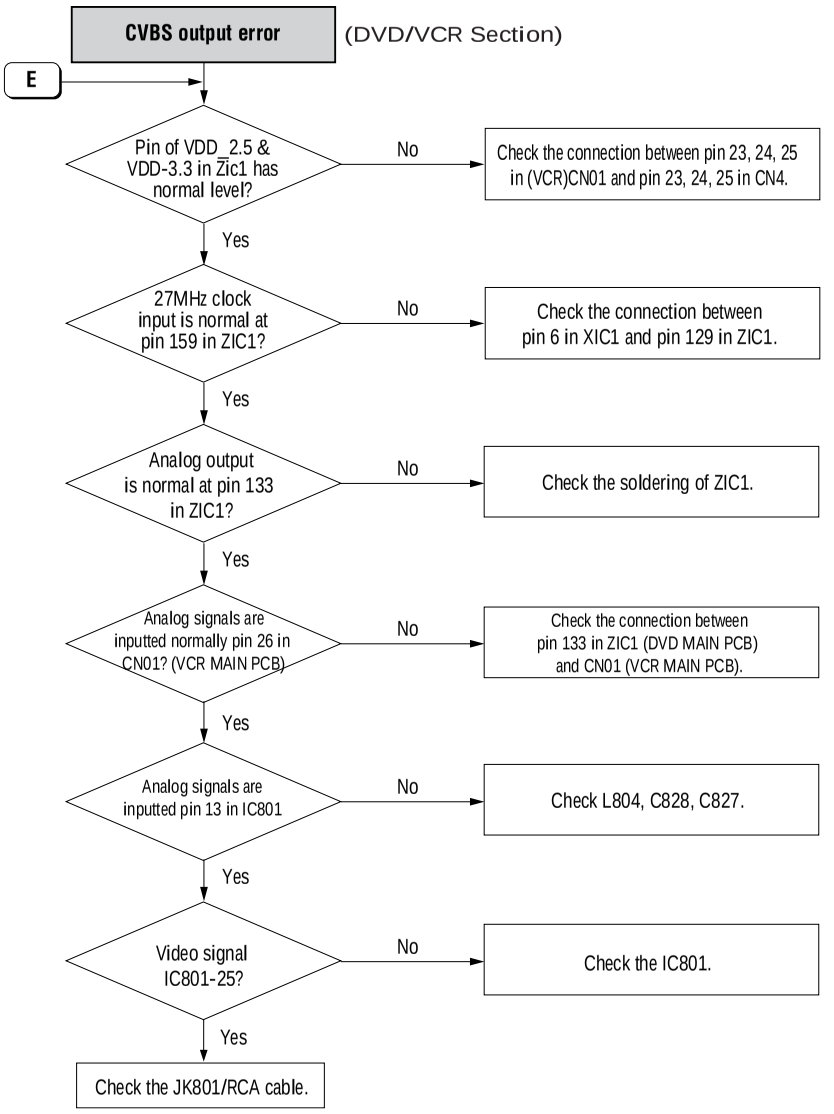

No Tray open/close
(DVD Section)
MIC1-48, 49 is
Open ; "L", "L" ?
Close ; "H", "H"?
No
Micom (MIC1) error.
Yes
Check DRIC1-35, 36
output at open/close
No
Check DRIC1.
Yes
Check signal line state from
DRIC1-35, 36 to tray motor.


CD/VCD/DVD L/R output error
(Mixed Audio output)
(DVD Section)
Normal DATA 0 is
input in AIC2-2?
No
Check ZIC1-121 output.
Yes
Analog output of
AIC2-7, 8 is normal?
No
Check ZIC1-125
(CD/VCD ; 16.9344MHz,
DVD ; 18.432MHz)
Yes
AIC4-1, 7 output
is normal?
No
Check AIC4 peripheral circuit.
Yes
Base terminal level
of AQ3, AQ6 are 'L'
No
Check IC601-50 mute.
Yes
Check JACK1, JK801 Audio out
peripheral soldering shot, IC801.


Digital output error
(DVD Section)
Output in ZIC1-127 is normal?
No
Check ZIC1 peripheral circuit.
Yes
Output in DOIC1-6, 8, 10 is normal?
No
Check DOIC1.
Yes
Check JACK1, DOIC2 peripheral soldering shot.


S-Video output error
(DVD Section)
DVD SETUP in OSD Alt video is "Component"?
Yes
Change the Alt video mode to S-Video.
No
VIC1 2, 4, 6 signal? (MM1567)
Yes
Check VIC1.
No
Check ZIC1. (ZIVA4.1)
Yes
E


Y/Pr/Pb output error
(DVD Section)
DVD SETUP in OSD
Alt video is "Component"?
No
Change the Alt Video mode to component.
Yes
VIC1-24, 21, 18 signal?
(MM1567)
Yes
JACK1 soldering Check.
No
VIC1-2, 4, 6 signal?
Yes
Check VIC1.
No
Check ZIC1.
(ZIVA 4.1)
Yes
E


CVBS output error
(DVD/VCR Section)
E
Pin of VDD_2.5 &
VDD-3.3 in Zic1 has
normal level?
No
Check the connection between pin 23, 24, 25
in (VCR)CN01 and pin 23, 24, 25 in CN4.
Yes
27MHz clock
input is normal at
pin 159 in ZIC1?
No
Check the connection between
pin 6 in XIC1 and pin 129 in ZIC1.
Yes
Analog output
is normal at pin 133
in ZIC1?
No
Check the soldering of ZIC1.
Yes
Analog signals are
inputted normally pin 26 in
CN01? (VCR MAIN PCB)
No
Check the connection between
pin 133 in ZIC1 (DVD MAIN PCB)
and CN01 (VCR MAIN PCB).
Yes
Analog signals are
inputted pin 13 in IC801
No
Check L804, C828, C827.
Yes
Video signal
IC801-25?
No
Check the IC801.
Yes
Check the JK801/RCA cable.

8. Repair Parts List

8-1 Exploded Views - - -

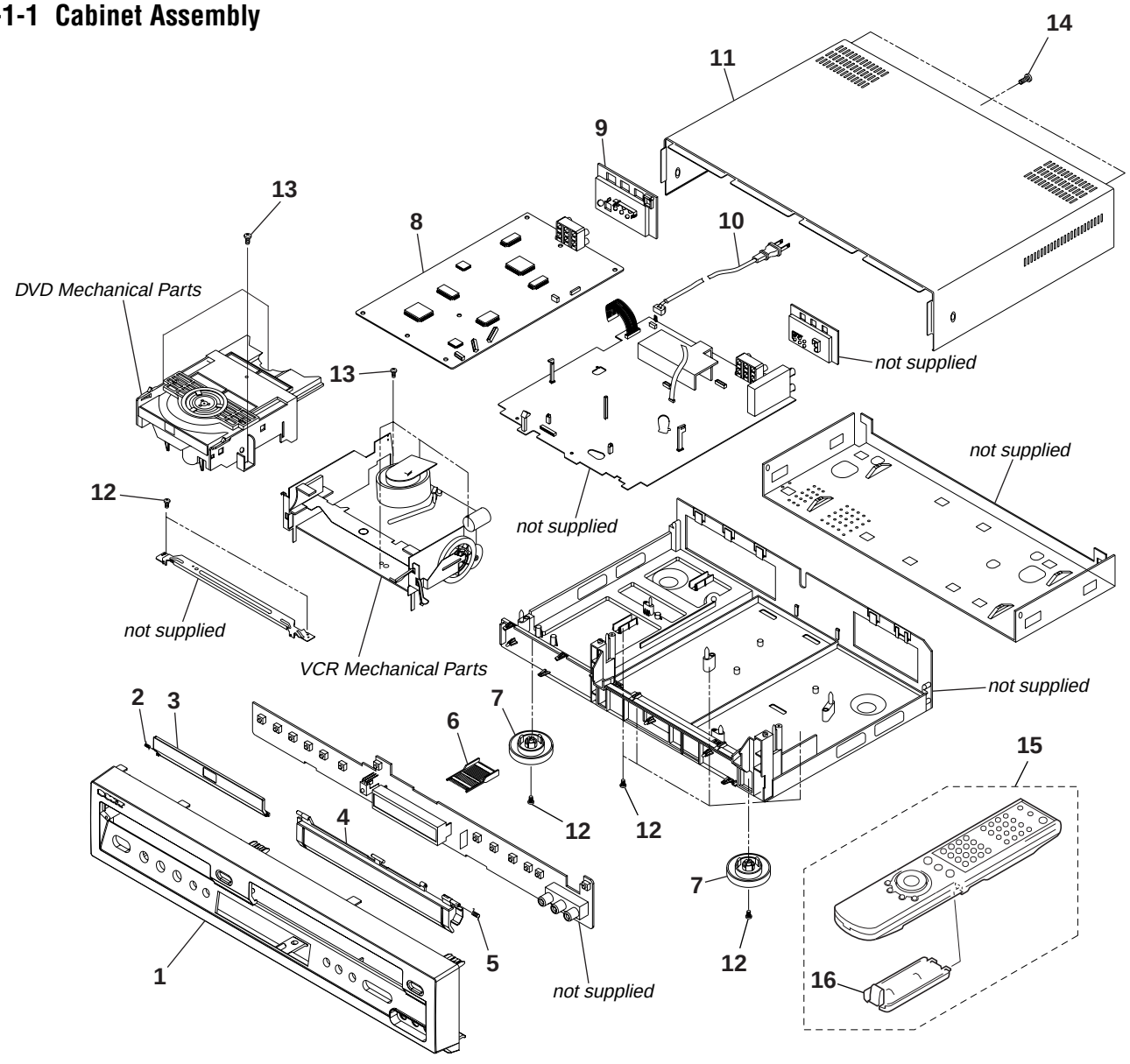
8-1 Exploded Views

NOTE:
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

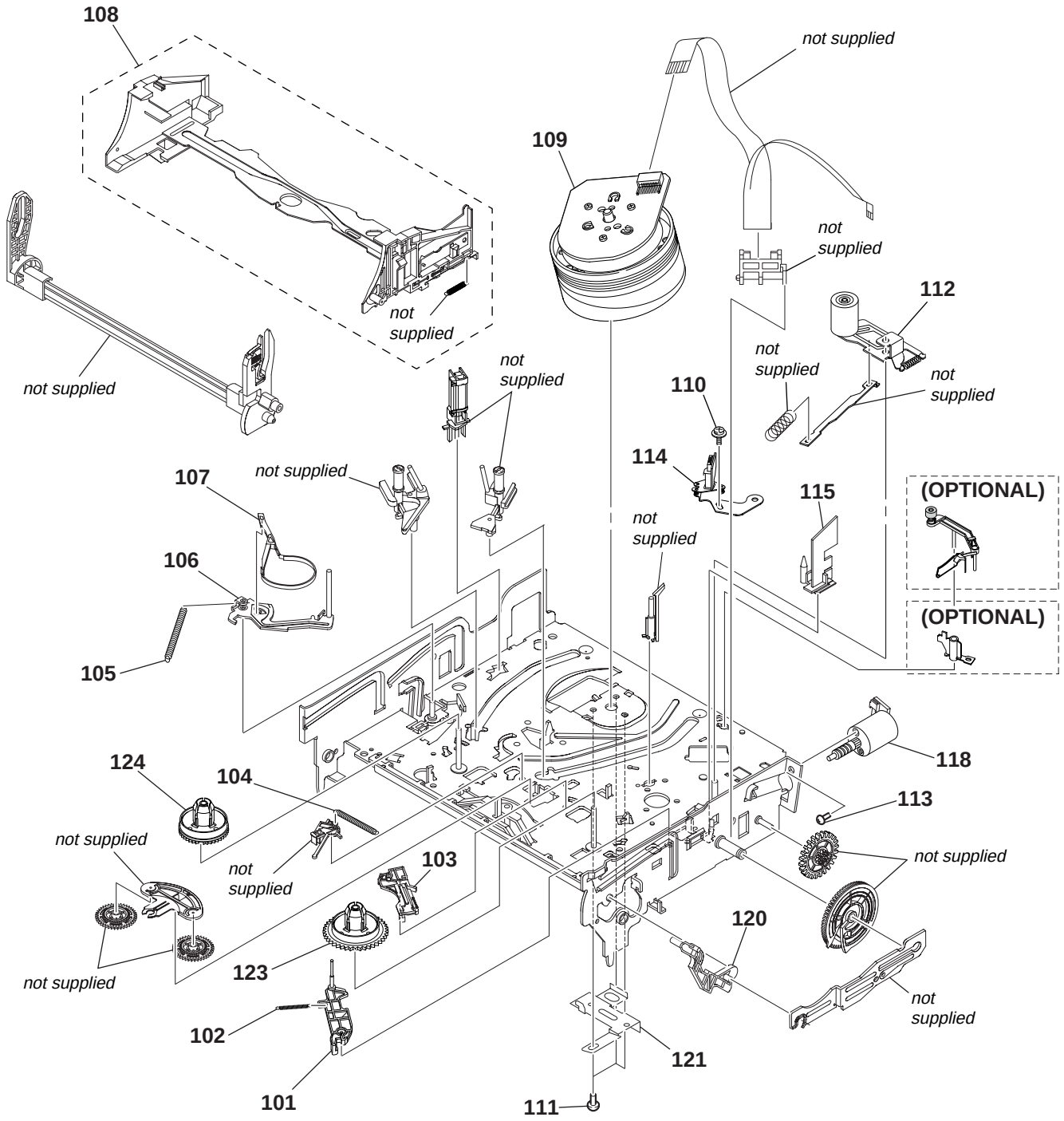
Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

8-1-1 Cabinet Assembly



Ref. No.	Part No.	Description	Remarks
1	3-078-577-01	ASSY PANEL FRONT (COMBO UC)	
2	3-078-578-01	SPRING ETC-DOOR TRAY	
3	3-078-630-01	DOOR TRAY	
4	3-078-629-01	DOOR CASSETTE	
5	3-078-579-01	SPRING ETC	
6	1-817-010-11	CONNECTOR-HEADER	
7	3-078-569-01	LEG (COMBO UC)	
8	A-6066-057-A	PWB DVD MOUNT	
9	3-078-599-01	ASSY CONNECTOR BOARD TM402B	
⚠10	1-824-674-11	POWER CORD EP2 SPT-2	
11	3-078-574-01	CABINET TOP (COMBO UC)	
12	3-075-256-01	SCREW TAP 3X12	
13	3-075-262-01	SCREW BH 4X12	
14	3-078-566-01	SCREW TAP M3 L10 BLK	
15	1-477-582-11	COMMANDER STANDARD (RMT-V501)	
16	3-078-598-01	BATTERY COVER (COMBO GRAY) (for RMT-V501)	

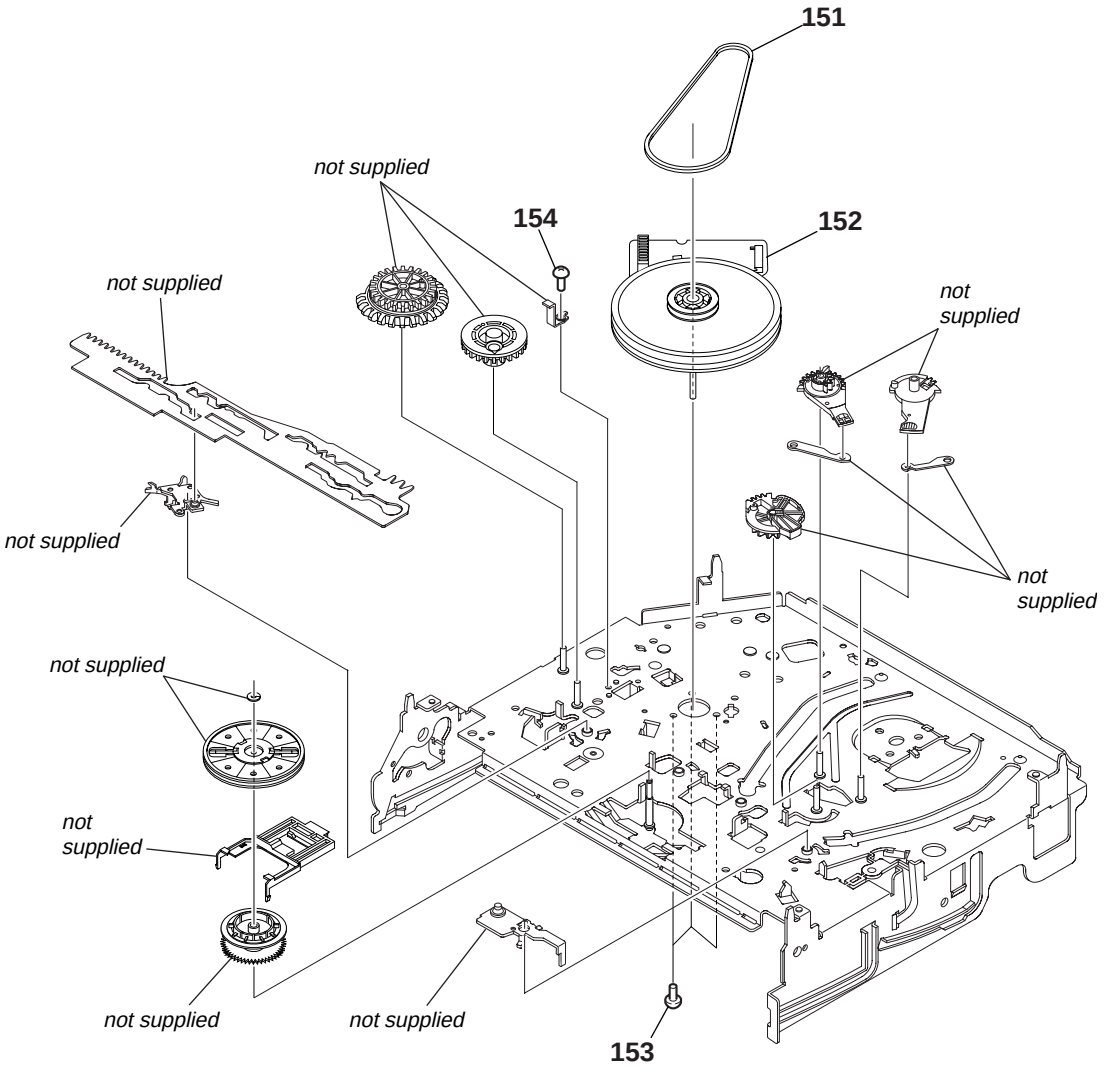
8-1-2 VCR Mechanical Parts (Top Side)



Ref. No.	Part No.	Description	Remarks
101	3-067-779-01	LEVER-#9 GUIDE	
102	3-067-780-01	SPRING-#9 GUIDE	
103	3-067-785-01	LEVER-T. BRAKE	
104	3-067-786-01	SPRING-BRAKE	
105	3-067-782-01	SPRING-TENSION LEVER	
106	3-067-781-01	LEVER-TENSION	
107	3-067-783-01	BAND-BREAK	
108	3-067-788-01	HOLDER-FL CASS.	
109	1-796-436-11	ASSY CLYNDER 6HD (J)	
110	3-075-253-01	SCREW ASSY MAC 2.6X5	

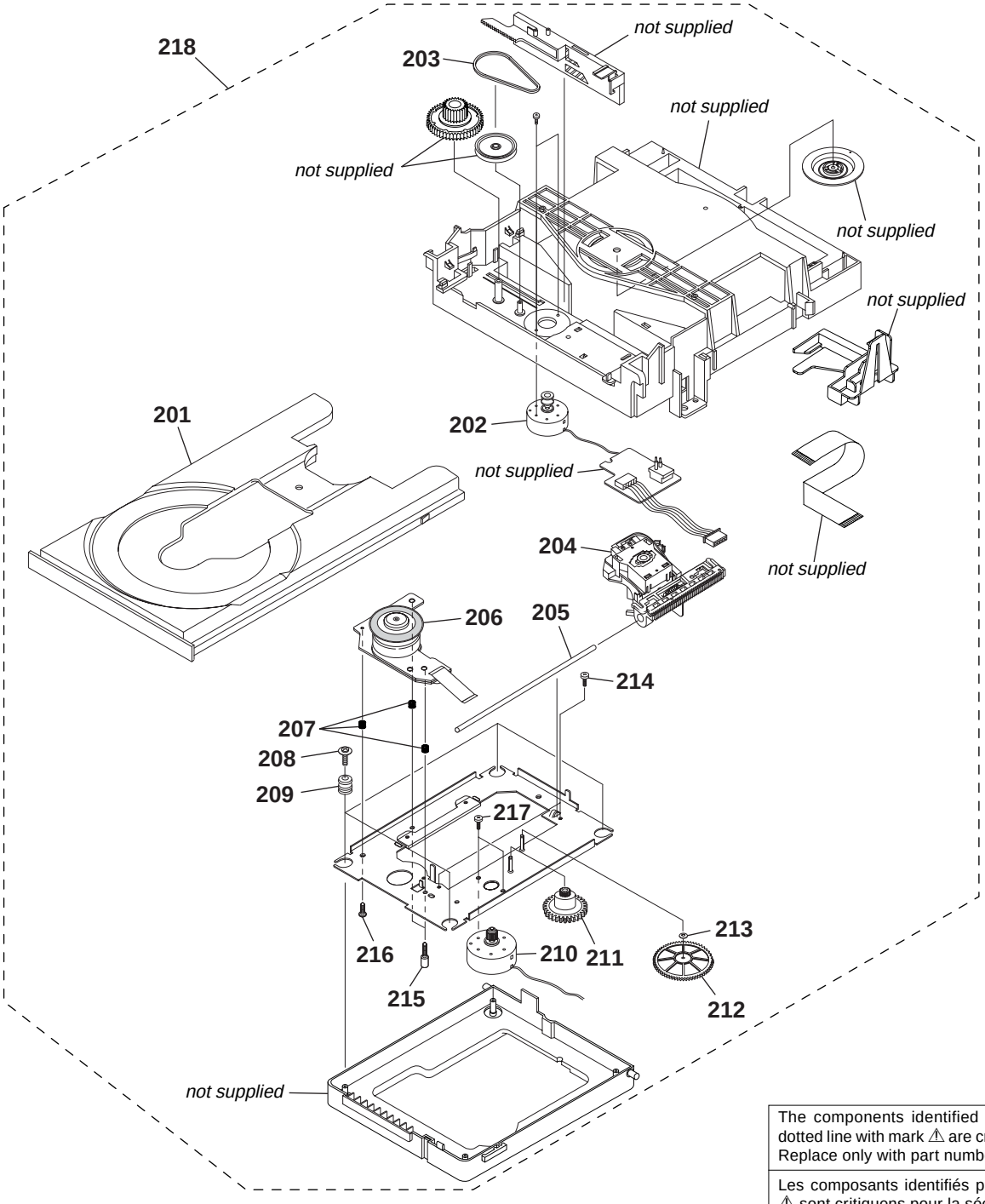
Ref. No.	Part No.	Description	Remarks
111	3-075-254-01	SCREW ASSY MAC 3X6	
112	3-067-784-01	LEVER-UNIT PINCH	
113	3-075-257-01	SCREW TAP 2.6X5	
114	3-075-241-01	ASSY ACE HEAD	
115	3-067-789-01	GUIDE-CASS. DOOR	
118	1-763-836-11	LOADING ASSY, MOTOR	
120	3-067-787-01	LEVER-FL DOOR	
121	3-067-796-01	PLATE-GROUND DECK	
123	3-075-046-01	DISK T REEL	
124	3-075-047-01	DISK S REEL	

8-1-3 VCR Mechanical Parts (Bottom Side)



Ref. No.	Part No.	Description	Remarks
151	3-067-790-01	BELT-PULLEY	
152	1-763-835-11	MOTOR CAPSTAN	
153	3-075-259-01	SCREW CAP 2.6X6	
154	3-075-260-01	SCREW MAC 3X3	

8-1-4 DVD Mechanical Parts



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remarks
201	3-078-586-01	TRAY DISC	
202	1-796-534-11	LOADING ASSY, MOTOR	
203	3-078-583-01	BELT RECTANGULAR	
⚠204	1-796-530-11	ASSY PICK UP	
205	3-078-588-01	SHAFT PU	
206	1-796-536-11	ASSY MOTOR-SPINDLE	
207	3-078-597-01	SPRING ETC SPINDOLE CHASSIS SUB	
208	3-078-592-01	SCREW TAP 2X6	
209	3-078-596-01	RUBBER INSULATOR	
210	1-796-537-11	FEED ASSY, MOTOR	
211	3-078-589-01	GEAR FEED A	
212	3-078-590-01	GEAR FEED B	
213	3-078-591-01	WASHER SLIT	
214	3-078-587-01	SCREW MAC 2.6X7	
215	3-078-593-01	SCREW SPE SWRCH18A	
216	3-078-594-01	SCREW MAC 2X6	
217	3-078-595-01	SCREW MAC MOTOR	
218	1-761-641-11	ASSY DVD DECK DP-7S COMBO	

DVD MAIN

8-2 Electrical Parts List

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- Not all of the parts are listed.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA...: μA... , uPA... , μPA... ,
  uPB... , μPB... , uPC... , μPC... ,
  uPD..., μPD...
- CAPACITORS:
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remarks
	A-6066-057-A	DVD MAIN BOARD, COMPLETE	
		**********	
	3-075-255-01	SCREW TAP 3X8	
		< DIODE >	
AD1	1-805-012-11	DIODE DAN202K	
AD2	1-805-012-11	DIODE DAN202K	
AD3	1-805-012-11	DIODE DAN202K	
AD4	1-805-009-11	DIODE SWITCHING DAN217	
AD5	1-805-012-11	DIODE DAN202K	
AD6	1-805-013-11	DIODE DAP202K	
PD1	1-805-010-11	DIODE 1SR154-400	
RD1	1-805-013-11	DIODE DAP202K	
VZ1	1-805-011-11	DIODE UDZ9.1B	
VZ2	1-805-011-11	DIODE UDZ9.1B	
VZ3	1-805-011-11	DIODE UDZ9.1B	
VZ4	1-805-011-11	DIODE UDZ9.1B	
VZ5	1-805-011-11	DIODE UDZ9.1B	
VZ6	1-805-011-11	DIODE UDZ9.1B	
VZ7	1-805-011-11	DIODE UDZ9.1B	
VZ8	1-805-011-11	DIODE UDZ9.1B	
VZ9	1-805-011-11	DIODE UDZ9.1B	
VZ10	1-805-011-11	DIODE UDZ9.1B	
		< IC >	
AIC2	1-805-024-11	IC DA CONVERTER	
AIC4	1-805-028-11	IC OP AMP 4560	
AIC5	1-805-028-11	IC OP AMP 4560	
DOIC1	1-805-039-11	IC M74HCU04	
DRIC1	1-805-025-11	IC MOTOR DRIVER KA3017	
MIC1	1-805-023-11	IC MICOM 91C829	
MIC2	1-805-026-11	IC EPROM 27C081	
MIC3	1-805-027-11	IC EEPROM 24C021	
MIC5	1-805-020-11	IC CMOS LOGIC 7S32	
MIC6	1-805-021-11	IC CMOS LOGIC 7SET00	
MIC7	1-805-019-11	IC CMOS LOGIC 7ST08	
PIC1	1-805-030-11	IC V REGULATOR 1563	
PIC2	1-805-032-11	IC V REGULATOR MM1561	
PIC3	1-805-031-11	IC V REGULATOR 3RD13	
RIC1	1-805-038-11	IC ASIC KS1462B	
PRIC1	1-805-040-11	IC ASIC S5LR010X01	
PRIC2	1-805-022-11	IC CMOS LOGIC 74VHCT125A	
SIC1	1-805-037-11	IC ASIC KS1454	
SIC2	1-805-033-11	IC DRAM 416C256	
SIC4	1-805-019-11	IC CMOS LOGIC 7ST08	
VIC1	1-805-029-11	IC VIDEO AMP MM1567A	
XIC1	1-805-039-11	IC M74HCU04	
ZIC1	1-805-036-11	IC DECODER ZIVA4.1 B0	
ZIC2	1-805-034-11	IC DRAM 4S641632	
		< COIL >	
AL1	1-400-316-11	INDUCTOR 0uH	
AL2	1-400-316-11	INDUCTOR 0uH	
DOL1	1-400-315-11	INDUCTOR 0uH	
DOL2	1-400-316-11	INDUCTOR 0uH	
RL1	1-400-316-11	INDUCTOR 0uH	
VL1	1-400-316-11	INDUCTOR 0uH	
VL2	1-400-316-11	INDUCTOR 0uH	
VL3	1-400-316-11	INDUCTOR 0uH	
VL4	1-400-316-11	INDUCTOR 0uH	
VL7	1-400-316-11	INDUCTOR 0uH	
VL8	1-400-316-11	INDUCTOR 0uH	
VL9	1-400-316-11	INDUCTOR 0uH	
VL10	1-400-316-11	INDUCTOR 0uH	
VL11	1-400-316-11	INDUCTOR 0uH	
XL1	1-400-316-11	INDUCTOR 0uH	
XL2	1-400-316-11	INDUCTOR 0uH	
ZL1	1-400-316-11	INDUCTOR 0uH	
ZL4	1-400-316-11	INDUCTOR 0uH	
ZL5	1-400-316-11	INDUCTOR 0uH	
ZL7	1-400-316-11	INDUCTOR 0uH	
ZL8	1-400-316-11	INDUCTOR 0uH	
		< TRANSISTOR >	
AQ1	1-805-017-11	TRANSISTOR 200MW	
AQ2	1-805-018-11	TRANSISTOR KSR2103	
AQ3	1-805-016-11	TRANSISTOR KSC1623-L	
AQ4	1-805-017-11	TRANSISTOR 200MW	
AQ5	1-805-018-11	TRANSISTOR KSR2103	
AQ6	1-805-016-11	TRANSISTOR KSC1623-L	

Ref. No.	Part No.	Description		Remarks
AQ7	1-805-017-11	TRANSISTOR	200MW	
AQ8	1-805-018-11	TRANSISTOR	KSR2103	
AQ9	1-805-015-11	TRANSISTOR	KSA812	
AQ11	1-805-016-11	TRANSISTOR	KSC1623-L	
AQ12	1-805-016-11	TRANSISTOR	KSC1623-L	
PRQ1	1-805-016-11	TRANSISTOR	KSC1623-L	
RQ1	1-805-016-11	TRANSISTOR	KSC1623-L	
RQ2	1-805-016-11	TRANSISTOR	KSC1623-L	
RQ3	1-805-016-11	TRANSISTOR	KSC1623-L	
RQ4	1-805-014-11	TRANSISTOR	KSA1182-Y	
RQ5	1-805-014-11	TRANSISTOR	KSA1182-Y	
SQ1	1-805-018-11	TRANSISTOR	KSR2103	
		< VAIBRATOR >		
MY1	1-795-751-11	RESONATOR CERAMIC (20MHz)		
SY1	1-795-749-11	CRYSTAL UNIT (33.8688MHz)		
XY1	1-795-750-11	CRYSTAL UNIT (27MHz)		

		FUNCTION-TIMER BOARD, COMPLETE	
		**********	
		< DIODE >	
D701	1-804-407-11	DIODE IN4148	
D702	1-804-407-11	DIODE IN4148	
D703	1-804-407-11	DIODE IN4148	
D704	1-804-407-11	DIODE IN4148	
DT701	1-518-848-11	LED DISPLAY LTG-0208M (LITE-ON)	
		< IC >	
IC701	1-804-706-11	IC LED DRIVER	
RM701	1-805-007-11	IC MODULE, REMOCON	
		< COIL >	
L701	1-400-074-11	INDUCTOR 0uH	
		< SWITCH >	
SW701	1-786-354-11	TACT SW (BULK 5MM) (EJECT)	
SW702	1-786-354-11	TACT SW (BULK 5MM) (VCR)	
SW703	1-786-354-11	TACT SW (BULK 5MM) (DVD)	
SW704	1-786-354-11	TACT SW (BULK 5MM) (REC)	
SW705	1-786-354-11	TACT SW (BULK 5MM) (CH UP)	
SW706	1-786-354-11	TACT SW (BULK 5MM) (CH DOWN)	
SW707	1-786-354-11	TACT SW (BULK 5MM) (OPEN/CLOSE)	
SW708	1-786-354-11	TACT SW (BULK 5MM) (FF)	
SW709	1-786-354-11	TACT SW (BULK 5MM) (PLAY)	
SW710	1-786-354-11	TACT SW (BULK 5MM) (REW)	
SW711	1-786-354-11	TACT SW (BULK 5MM) (STOP)	
SW712	1-786-354-11	TACT SW (BULK 5MM) (POWER)	
SW713	1-786-354-11	TACT SW (BULK 5MM) (P/STILL)	

Ref. No.	Part No.	Description		Remarks
		VCR MAIN BOARD, COMPLETE		
		**********		
	3-075-066-01	HOLDER-SENSOR		
		< COIL >		
BD1SS1	1-400-085-11	INDUCTOR	0uH	
BD1SS2	1-400-085-11	INDUCTOR	0uH	
BD1SS3	1-400-085-11	INDUCTOR	0uH	
L302	1-400-085-11	INDUCTOR	0uH	
L303	1-400-085-11	INDUCTOR	0uH	
L1SS01	1-456-179-11	COIL-LINE FILTER	25mH	
L1SS02	1-424-828-11	COIL CHOKE	10uH	
L1SS03	1-424-828-11	COIL CHOKE	10uH	
L1SS04	1-424-828-11	COIL CHOKE	10uH	
L1SS05	1-424-828-11	COIL CHOKE	10uH	
		< CAPACITOR >		
⚠C1SD02	1-165-992-11	CAPACITOR	10000pF	
⚠C1SD03	1-165-557-11	CAPACITOR	2200pF	
⚠C1SS01	1-165-573-11	FILM	0.1uF	
⚠C1SS04	1-100-358-11	CERAMIC DISC	100pF	
		< DIODE >		
D1P101	1-804-409-11	DIODE IN4002		
D1P102	1-804-409-11	DIODE IN4002		
D1P103	1-804-407-11	DIODE IN4148		
D1P104	1-804-407-11	DIODE IN4148		
D1P105	1-804-407-11	DIODE IN4148		
D1P107	1-804-407-11	DIODE IN4148		
D1P108	1-804-407-11	DIODE IN4148		
D1SR10	1-804-407-11	DIODE IN4148		
D1SR11	1-804-407-11	DIODE IN4148		
D1SS01	1-804-413-11	DIODE IT5		
D1SS02	1-804-413-11	DIODE IT5		
D1SS03	1-804-413-11	DIODE IT5		
D1SS04	1-804-413-11	DIODE IT5		
D1SS05	1-805-041-11	DIODE SCHOTTKY SE55		
D1SS07	1-805-041-11	DIODE SCHOTTKY SE55		
D1SS08	1-805-041-11	DIODE SCHOTTKY SE55		
D1SS09	1-804-407-11	DIODE IN4148		
D1SS10	1-804-407-11	DIODE IN4148		
D1SS11	1-804-408-11	DIODE UF4007		
D1SS12	1-804-412-11	DIODE FIT4		
D1SS13	1-804-411-11	DIODE UG2D		
D1SS15	1-804-412-11	DIODE FIT4		
D503	1-804-407-11	DIODE IN4148		
D601	1-804-407-11	DIODE IN4148		
D603	1-804-409-11	DIODE IN4002		
D604	1-804-409-11	DIODE IN4002		
D605	1-804-407-11	DIODE IN4148		
D606	1-804-409-11	DIODE IN4002		
D801	1-804-407-11	DIODE IN4148		
D803	1-804-407-11	DIODE IN4148		

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

VCR MAIN

Ref. No.	Part No.	Description	Remarks
D804	1-804-407-11	DIODE IN4148	
D813	1-804-407-11	DIODE IN4148	
D814	1-804-407-11	DIODE IN4148	
LD601	1-804-438-11	LED-IR	
ZD1P01	1-804-414-11	DIODE ZENER UZP33B	
ZD1P02	1-804-418-11	DIODE ZENER MTZJ12B	
ZD1P03	1-804-417-11	DIODE ZENER MTZJ9.1B	
ZD1P04	1-804-416-11	DIODE ZENER MTZJ5.1B	
ZD1P05	1-804-418-11	DIODE ZENER MTZJ12B	
ZD1P06	1-804-416-11	DIODE ZENER MTZJ5.1B	
ZD1SS1	1-804-415-11	DIODE ZENER UZP43B	
		< FUSE >	
⚠F1SD01	1-576-525-11	FUSE (1.6A/250V)	
		< IC >	
IC1SS1	1-804-784-11	IC PHOTO COUPLER	
IC1SS2	1-804-445-11	IC KA4318	
IC301	1-804-772-11	IC VIDEO LA71201	
IC501	1-804-434-11	IC AN3663FBP	
IC601	1-805-006-11	IC MICON MN101D06F	
IC603	1-805-042-11	IC EEPROM 524C80D41	
IC6B1	1-804-444-11	IC KA7533	
IC801	1-805-035-11	IC AUDIO LA73024V	
		< PHOTO INTERRUPTER >	
PT601	1-804-770-11	TRANSISTOR PHOTO INTERRUPTER	
PT602	1-804-770-11	TRANSISTOR PHOTO INTERRUPTER	
		< TRANSFORMER >	
⚠PT1SD1	1-437-943-11	TRANS SWITCHING EER3530	
		< TRANSISTOR >	
Q1P101	1-804-424-11	TRANSISTOR KSC2328AY	
Q1P102	1-804-429-11	TRANSISTOR KSR2001	
Q1P103	1-804-421-11	TRANSISTOR KSC945	
Q1P104	1-804-421-11	TRANSISTOR KSC945	
Q1P105	1-804-424-11	TRANSISTOR KSC2328AY	
Q1P106	1-804-424-11	TRANSISTOR KSC2328AY	
Q1P107	1-804-424-11	TRANSISTOR KSC2328AY	
Q1P108	1-804-429-11	TRANSISTOR KSR2001	
Q1P109	1-804-421-11	TRANSISTOR KSC945	
Q1P110	1-804-424-11	TRANSISTOR KSC2328AY	
Q1P111	1-804-424-11	TRANSISTOR KSC2328AY	
Q1SD11	1-804-767-11	TRANSISTOR POWER	
Q1SR12	1-804-422-11	TRANSISTOR KTC3023	
Q302	1-804-420-11	TRANSISTOR KSA733	
Q303	1-804-421-11	TRANSISTOR KSC945	
Q304	1-804-420-11	TRANSISTOR KSA733	
Q305	1-804-422-11	TRANSISTOR KTC3023	
Q306	1-804-420-11	TRANSISTOR KSA733	
Q307	1-804-422-11	TRANSISTOR KTC3023	
Q308	1-804-422-11	TRANSISTOR KTC3023	

Ref. No.	Part No.	Description	Remarks
Q601	1-804-428-11	TRANSISTOR KSR1004	
		< PHOTO TRANSISTOR >	
S601	1-804-439-11	PHOTO TRANSISTOR	
S602	1-804-439-11	PHOTO TRANSISTOR	
		< SWITCH >	
SW602	1-786-199-11	SWITCH REC	
SW603	1-786-198-11	SWITCH MODE	
		< TUNER >	
TM401	1-693-551-11	TUNER NTSC	
		< VARISTOR >	
⚠VA1SS1	1-804-437-11	VARISTOR	
		MISCELLANEOUS	
		**********	
6	1-817-010-11	CONNECTOR-HEADER	
⚠10	1-824-674-11	POWER CORD EP2 SPT-2	
109	1-796-436-11	ASSY CLYNDER 6HD (J)	
118	1-763-836-11	LOADING ASSY, MOTOR	
152	1-763-835-11	MOTOR CAPSTAN	
202	1-796-534-11	LOADING ASSY, MOTOR	
⚠204	1-796-530-11	ASSY PICK UP	
206	1-796-536-11	ASSY MOTOR-SPINDLE	
210	1-796-537-11	FEED ASSY, MOTOR	
218	1-761-641-11	ASSY DVD DECK DP-7S COMBO	

ACCESSORIES & PACKING MATERIALS
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	1-477-582-11	COMMANDER STANDARD (RMT-V501)
	3-077-210-12	MANUAL, INSTRUCTION (ENGLISH)
	3-077-210-22	MANUAL, INSTRUCTION (FRENCH)
	3-078-598-01	BATTERY COVER (COMBO GRAY) (for RMT-V501)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.